OKIOFFICE44,
OKIFAX 4100/5000 Series

Maintenance Manual

Fourth Edition

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Oki Data Corporation

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PREFACE

This manual is intended to be used for installing and maintaining OKIOFFICE44, OKIFAX 4100/5000 series facsimile transceiver.

Maintenance of the OKIOFFICE44, OKIFAX 4100/5000 series is assumed to be conducted at the following levels:

- Assembly-level maintenance for mechanical portions
- Unit-level maintenance for electrical at portions

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS
and
ATTENTION: IL Y A DANGER D'EXPLOSION S'IL Y A REMPLACEMENT INCORRECT DE LA BATTERIE. REMPLACER UNIQUEMENT AVEC UNE BATTERIE DU MEME TYPE OU D'UNT TYPE RECOMMANDE PAR LE CONSTRUCTEUR. METTRE AU REBUT LES BATTERIES USA GEES CONFORMEMENT AUX INSTRUCTIONS DU FABRICANT.

Programming procedures of the following uses's functions are not described in this maintenance manual. Please refer to user's guide.

- One-touch key programming
- Two-digit auto dial programming
- Group setting
- Programming mail box password
- Memory operation

ODA/OEL, INT'L MODEL NAME

ODA	OEL/INT'L
OKIOFFICE44	OKIFAX 4100
OKIFAX 5300	OKIFAX 5200
OKIFAX 5600	OKIFAX 5500

Note: 5000 series written in this maintenance manual shows OKIFAX 5200, OKIFAX 5300, OKIFAX 5500, and OKIFAX 5600 model name.

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CONTENTS

1.GENERAL INFORMATION 6

1.1 General Performance 6
1.2 General User's Function 9
1.3 General Maintenance Functions 12
1.4 General Appearance 13
1.5 Basic Performance Specifications 17
1.6 Reports and Lists 27

2.INSTALLATION PROCEDURE 52

A. Setup Information 52
2.1 General 52
2.2 Site Selection 54
2.3 Unpacking 56
2.3.1 Unpacking for OKIOFFICE44/OKIFAX 4100 56
2.3.2 Unpacking for OKIFAX 5000 Series 58
2.4 Check of Contents 61
2.5 Installation of Attachments 62
2.5.1 Installation of Attachments for OKIOFFICE44/OKIFAX 4100 62
2.5.2 Installation of Attachments for OKIFAX 5000 Series 67
2.6 AC Cord Connection 72
2.7 Telephone and Line Connections 74
2.8 Packing for Shipment 74
B. Programming and Initial Settings 75
2.9 Initial Settings 75
2.9.1 General Procedure of Key Operation 75
2.9.2 Technical Functions 79
2.9.3 Technical Functions Example 90
2.9.4 User's Functions 97
2.9.5 User's Functions Example 113
2.9.6 Clock Adjustment 120
2.9.7 Dual Access Operation (for OKIFAX 5000 series) 121
2.9.8 System Data Programming 122
2.9.9 Dial Parameters Settings 124
2.9.10 Off-line Tests 128
2.9.11 On-line Tests 130
C. Installation of Optional Units 133

3.BRIEF TECHNICAL DESCRIPTION 145

3.1 Fundamentals of the Electro-Photographic Process 146
3.2 Actual Electo-photographic Process 148
3.3 Boards and Units 149
3.3.1 OKIOFFICE44/OKIFAX 4100 Boards and Units 149
3.3.2 OKIFAX 5000 Series Boards and Units 149
3.4 Overall Dimension and Mechanical Structure of OKIOFFICE44/OKIFAX 4100 152
3.5 Overall Dimension and Mechanical Structure of OKIFAX 5000 series 153

4-1.MECHANICAL DISASSEMBLY AND REASSEMBLY FOR OKIOFFICE44/OKIFAX 4100 154

4.1 General 154
4.1.1 Precautions for Parts Replacement 154
4.1.2 Tools 155
4.1.3 How to Disassemble and Reassemble 155
4.1.3.1 LED Print Head 159
4.1.3.2 ID Unit, Rear-Cover, Cover-NCU, Cover-Main and Board-NCU 160
4.1.3.3 Unit-048 OPE-Panel 162
4.1.3.4 Separation Rubber, Roller Assembly Sensor 163
4.1.3.5 Roller Assembly-ADF, CIS (contact image sensor), Lever-PC1 and PC2 164
4.1.3.6 Board-R44, OKIOFFICE 44/OKIFAX 4100 Power Supply Unit 167
4.1.3.7 Option (Board-Memory: MEM, Board-CTR; PC Interface) 168
4.1.3.8 Printer Unit Section 169
4.1.3.9 Transfer Roller 170
4.1.3.10 High-Voltage Power Supply Unit (TLHV/OLHV) 171

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4.1.3.11 Holder Assembly 172
4.1.3.12 Plate-Side M and Gear-Idle 173
4.1.3.13 Registration Roller 174
4.1.3.14 Drive Shaft E (Eject) and Eject Roller 175
4.1.3.15 Heat Assembly 176
4.1.3.16 Pressure Roller B (Back Up Roller) 177
4.1.3.17 Hopping Shaft Assembly 178
4.1.3.18 Paper Sensor E, Paper Sensor Exit and Toner Sensor Assembly 179
4.1.3.19 Printer Unit 180

4-2.MECHANICAL DISASSEMBLY AND REASSEMBLY FOR OKIFAX 5100 SERIES 181

4.2 General 181
4.2.1 Precautions for Parts Replacement 181
4.2.2 Tools 182
4.2.3 How to Disassemble and Reassemble 182
4.2.3.1 LED Print Head 185
4.2.3.2 ID Unit, Rear Cover, NCU Cover, Main Cover, Separation Plate, NCU Board, Modem Board 186
4.2.3.3 Control Panel Assembly, Paper Guide (U) Assembly. 188
4.2.3.4 Sub-roller, ADF Roller Assembly, Pinch Roller, Contact Image Sensor, Document Detectors (PC1 and PC2). 190
4.2.3.5 Resist Motor, Drum Motor, Release Guide Assembly, Manual Guide Assembly, Stacker Cover, Fusing Unit 192
4.2.3.6 Lower Base, Motor Assembly, Back-up Roller, Transfer Roller 194
4.2.3.7 Resist Roller, Hopping Roller, Sensor Plates 196
4.2.3.8 MCNT Board, Power Supply Unit, Contact Assembly, Transformer, Sub-PSU 198

5.ADJUSTMENTS 199

5.1 Setting of LED Print Head Drive Time 199
5.2.1 OKIOFFICE44/OKIFAX 4100 Confirmation Items 200
5.2.2 OKIOFFICE44/OKIFAX 4100 Measurement 201
5.3.1 OKIFAX 5000 Series Confirmation Items 202
5.3.2 OKIFAX 5000 Series Measurement 203

6.CLEANING AND MAINTENANCE 205

6.1 Replacement of Consumable Parts 205
6.2 Routine Inspection 208
6.2.1 Routine inspection for OKIOFFICE44/OKIFAX 4100 208
6.2.2 Routine inspection for OKIFAX 5000 series 210
6.3 Printer Counter Display/Clear 212
6.4 Printer Counter Display/Clear 213
6.5 Self-diagnosis Test 214
6.6 Sensor Calibration Test 218
6.7 LED Test 220
6.8 Tone Send Test 221
6.9 High-speed Modem Send Test 222
6.10 High-speed Modem Receive Test 224
6.11 MF Send Test 225
6.12 Tone (TEL/FAX) 226
6.13 Protocol Dump Data Printing 227
6.14 System Reset 231
6.15 Service Code 232

7-1.TROUBLESHOOTING AND REPAIR FOR OKIOFFICE44/OKIFAX 4100 235

7.1.1 Overall Troubleshooting Flow Chart 237
7.1.2 No LCD Operation 238
7.1.3 ALARM LED On 239
7.1.4 Printing Test Failure 240
7.1.5 No Local Copy 241
7.1.6 Auto Dial Failure 242
7.1.7 Transmission Problem 243
7.1.8 Auto Reception Failure 245
7.1.9 Reception Problem 246
7.1.10 Sensor Calibration Test 248
7.1.11 LED Test 249

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7.1.12 Tone Send Test 250
7.1.13 High-speed Modem Test 251
7.1.14 MF Send Test 253
7.1.15 Tone (TEL/FAX) Send Test 254
7.1.16 No Acoustic Line Monitor 255
7.1.17 Power Supply Unit 256
7.1.18 No Document Feeding 265
7.1.19 Multiple Document Feeding 266
7.1.20 Document Skew 267
7.1.21 Document Jam 269
7.1.22 Printer Unit 270
7.1.22.1 Precautions 270
7.1.22.2 Troubleshooting Flow Charts of Printer Unit 271
7-2.TROUBLESHOOTING AND REPAIR FOR OKIFAX 5000 SERIES 287
7.2.1 Overall Troubleshooting Flow Chart 289
7.2.2 No LCD Operation 290
7.2.3 ALARM LED On 291
7.2.4 Printing Test Failure 292
7.2.5 No Local Copy 293
7.2.6 Auto Dial Failure 294
7.2.7 Transmission Problem 295
7.2.8 Auto Reception Failure 297
7.2.9 Reception Problem 298
7.2.10 Sensor Calibration Test 300
7.2.11 LED Test 301
7.2.12 Tone Send Test 302
7.2.13 High-speed Modem Test 303
7.2.14 MF Send Test 305
7.2.15 Tone (TEL/FAX) Send Test 306
7.2.16 No Acoustic Line Monitor 307
7.2.17 Power Supply Unit 308
7.2.18 No Document Feeding 315
7.2.19 Multiple Document Feeding 316
7.2.20 Document Skew 317
7.2.21 Document Jam 319
7.2.22 Printer Unit 320
7.2.22.1 Precautions 320
7.2.22.2 Troubleshooting Flow Charts of Printer Unit 321
8.DIPSWITCHS SETTING TABLE LIST 337
APPENDIX A PC BOARD DESCRIPTIONS AND OPERATION 361
APPENDIX B1 DESCRIPTIONS OF PRINT OPERATION (OKIOFFICE44/OKIFAX 4100) 505
APPENDIX B2 DESCRIPTIONS OF PRINT OPERATION (OKIFAX 5000 SERIES) 521
APPENDIX C CIRCUIT DIAGRAM AND PARTS LIST 541
APPENDIX D1 MECHANICAL EXPANDED VIEW DRAWING AND PARTS LIST (OKIOFFICE44/OKIFAX 4100) 544
APPENDIX D2 MECHANICAL EXPANDED VIEW DRAWING AND PARTS LIST (OKIFAX 5200/5300/5500/5600) 573
APPENDIX E BOARD LAYOUT 600
APPENDIX F SECOND PAPER FEEDER MAINTENANCE MANUAL (OKIFAX 5000 SERIES) 601
APPENDIX G RMCS SYSTEM MANUAL(FOR MODEL 20) 619

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1. GENERAL INFORMATION

1.1 General Performance

(1) Type of appearance
- Desktop type

(2) Applicable lines
- General switched telephone network (GSTN)
- Private branch exchange (PBX)

(3) Compatibility
- ITU-T Group 3 facsimile transceiver

(4) Document width
- Max. 216 mm (NA Letter)
- Min. 148 mm (ISO A5 size)

(5) Effective reading width
- Max. 215 mm

(6) Scanning length
- 128 mm to 356 mm
  (Length setting: Infinite is also available.)

(7) Automatic document feeder (ADF)
- 20 sheets for OKIOFFICE44/OKIFAX 4100 ((NA Letter/A4-size: 20-1b bond. Oki Data recommended paper)
- 30 sheets for OKIFAX 5000 series (NA Letter/A4-size: 20-1b bond. Oki Data recommended paper)
- 15 sheets (NA Letter/A4-size: 13 to 28-1b bond)

Note: NA is North America

(8) Recording paper or sheet *(Rev. 2)*

• 1st tray: (OKIOFFICE44/OKIFAX 4100)	NA Letter/NA Legal/A4-size plain paper cut 100 sheets capacity (20-1b bond*)
• First cassette: (OKIFAX 5000 series)	NA Letter/NA Legal/A4-size plain paper cut 250 sheets capacity (20-1b bond*)
• Second cassette (Option): (OKIFAX 5000 series)	NA Letter/NA Legal/A4-size plain paper cut 500 sheets capacity (20-1b bond*)
• Manual loading feeder: (OKIOFFICE44, OKIFAX 4100/5000 series)	Transparency for overhead projector, applicable. Sheet size: NA Letter/NA Legal/A4-size

*: Oki Data recommended paper

(9) Printable width

For OKIOFFICE44/OKIFAX 4100
- NA Letter: 203.2 mm (203.2 mm for assured quality)
- NA Legal: 203.2 mm (203.2 mm for assured quality)
- ISO A4: 203.2 mm (197.3 mm for assured quality)

For OKIFAX 5000 series
- NA Letter: 211.3 mm (203.2 mm for assured quality)
- NA Legal: 211.3 mm (203.2 mm for assured quality)
- ISO A4: 206 mm (197.3 mm for assured quality)

(10) Printable length *(Rev. 2)*
- NA Letter: 273.4 mm (266.7 mm for assured quality)
- NA Legal: 349.6 mm (342.9 mm for assured quality)
- ISO A4: 291 mm (284.3 mm for assured quality)

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(11) Copy stacker
- Max. 30 sheets for OKIOFFICE44/OKIFAX 4100 (20-lb bond)
- Max. 100 sheets for OKIFAX 5000 series (20-lb bond)

*: Oki Data recommended paper

(12) Scanning resolution

a) Horizontal:
- 8 pels/mm for OKIOFFICE44/OKIFAX 4100
- 8 pels/mm for OKIFAX 5200/5500 of INT'L version
- 300 dots/inch for OKIFAX 5300/5600 of ODA version

b) Vertical: *(Rev. 2)*

Transmission mode:	3.85 line/mm (STD), 7.7 line/mm (FINE) or 15.4 line/mm (EX. FINE) for OKIOFFICE44/OKIFAX 4100 and OKIFAX 5200/5500 of INT'L version. 3.85 line/mm (STD), 7.7 line/mm (FINE) or 300 dot/inch (EX.FINE) for OKIFAX 5300/5600 of ODA version.
COPY mode:	7.7 line/mm (FINE) or 15.4 line/mm (EX.FINE) for OKIOFFICE44/ OKIFAX 4100 and OKIFAX 5200/5500 of INT'L version. 7.7 line/ mm(FINE) or 300 dot/inch(EX.FINE) for OKIFAX 5300/5600 of ODA version.

(13) Scanning method
- 1728 bits contact image sensor for OKIOFFICE44/OKIFAX 4100 and OKIFAX 5200/5500 of INT'L version.
- 2592 bits contact image sensor for OKIFAX 5300/5600 of ODA version.

(14) Recording resolution

a) Horizontal:
300 dots/inch for OKIOFFICE44/OKIFAX 4100/5000 series

b) Vertical: *(Rev. 2)*

Variable:	Automatically adjusted to the paper length. STD mode (3.85 to 5.06 line/mm) and FINE mode (7.7 to 10.13 line/ mm) for OKIOFFICE44/OKIFAX 4100 and OKIFAX 5200/5500 of INT'L version. (300 to 395 dot/inch), STD mode (3.85 to 5.06 line/mm) and FINE mode (7.7 to 10.13 line/mm) and EX-FINE mode (15.4 to 20.24 line/mm) for OKIFAX 5300/5600 of ODA version.
Fixed:	STD mode: 3.85 line/mm FINE mode: 7.7 line/mm EX-FINE mode : 15.4 line/mm : 300 dot/inch

(15) Recording method
- 211.3 mm (2496 bit) or 216.7 mm (2560 bit)

(16) Minimum scan line time for reception

• When receiving from OKIFAX or ECM:	0 ms
• When receiving from non- OKIFAX and non ECM:	10 ms at 3.85 line/mm 5 ms at 7.7 line/mm

(17) Print speed
- Max. 4 sheets per minute (OKIOFFICE44/OKIFAX 4100)
- Max. 8 sheets per minute (OKIFAX 5000 series)

(18) Pre-heating time
- Approx. 20 sec. for OKIFAX 5000 series (Standby to Print)
- Approx. 30 sec. for OKIOFFICE44/OKIFAX 4100 (Standby to print)

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(19) Coding scheme
- Modified Huffman (MH)
- Modified READ (MR)
- Modified Modified READ (MMR)

(20) Modem *(Rev. 2)*

• ITU-T Rec. V.29:	9600/7200 bps	(OKIOFFICE44/OKIFAX 4100/5000 series)
• ITU-T Rec. V.27 ter:	4800/2400 bps	(OKIOFFICE44/OKIFAX 4100/5000 series)
• ITU-T Rec. V.21 channel 2:	300 bps	(OKIOFFICE44/OKIFAX 4100/5000 series)
• ITU-T Rec. V.17:	14400/12000 bps	(OKIOFFICE44/OKIFAX 4100/5000 series)
• ITU-T Rec. V.33:	14400/12000 bps	(OKIOFFICE44/OKIFAX 4100/5000 series)
• ITU-T Rec. V.34:	28800 bps	(OKIFAX 5500/5600)

Note: 33600 bps (V.34) is available for OKIFAX 5500/5600 when serviceman set to enable.

(21) Transmission speed
- 6 sec. per sheet of ITU-T No. 1 sample document
- 3 sec. per sheet of ITU-T No. 1 sample document

Note: This is Phase C time at 3.85 line/mm and 28800 bps for 3 sec. and 14400 bps for 6 sec. in MMR code transmission.

(22) Protocol
- ITU-T Rec. T.30
- OKI special protocols: High-speed protocol

(23) Error correction mode (ECM)

(24) Communication mode
- Half duplex

(25) Memory capacity

• Basic model:	256k byte (OKIOFFICE44/OKIFAX 4100/5200/5300) 512k byte (OKIFAX 5500/5600)
• Optional memory:	1M byte memory board can be added. (OKIOFFICE44/OKIFAX 4100, 5200, 5300) One of 1M byte or 2M byte memory board can be added. (OKIFAX 5500/5600 series)

(26) Liquid crystal display (LCD)
- Two rows of 20 characters for operation guidance, check and various kinds of information

(27) Power source
- Nominal input voltage 120 VAC for ODA version
- Nominal input voltage 230 VAC for INT'L version

(28) MFP (Multi- Function Peripheral) function *(Rev. 2)*
- By installing the optional board (CTR board), the MFP function can be realized:
  PC Printer Function
  PC Scanner Function
  PC FaxModem Function
  Location Programing Function

Note: For details, see "Product Specification for MFP"
This function is the standard for OKIFAX 5600 and OKIOFFICE44 for ODA.

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1.2 General User's Function

(1) Transmit mode
- Automatic transmit mode
- Manual transmit mode

(2) Receive mode
- Automatic receive mode
- Manual receive mode
- TEL/FAX automatic switchover mode
- TAD mode

(3) Dual access (OKIFAX 5000 series)

(4) Voice request

(5) Automatic redial

(6) Last number redial (Manual redial)

(7) Local copy including multiple copies
- Max. 50 copies of document for OKIOFFICE44/OKIFAX 4100 and Max. 99 copies of document for OKIFAX 5000 series.

(8) Sender identification (Sender ID)

(9) Personal identification (Personal ID)

(10) Polling transmission

(11) Polling reception

(12) Acoustic line monitor

(13) Telephone handset (option)

(14) Automatic alternate selecting call (FAX No. + FAX No. can be registered in one-touch keys).

(15) Delayed transmission (Max. 3 days)
- Delayed broadcast
- Delayed transmission

  OKIOFFICE44/OKIFAX 4100; 1 specified time
  OKIFAX 5200/5300; 5 specified times
  OKIFAX 5500/5600; 20 specified times

(16) Relay broadcast initiate

(17) Confidential message transmission (Hopper 1 station)

(18) Confidential message reception (Rev.2)
- OKIFAX 5200/5300: 8 mail boxes
- OKIFAX 5500/5600: 16 mail boxes

(19) PHOTO mode
- OKIOFFICE44/OKIFAX 4100: 16 scale gradations
- OKIFAX 5000 series: 64 scale gradations

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(20) G3 sequential broadcast (Memory)
- Broadcast mode
  - OKIOFFICE44/OKIFAX 4100 (56 stations at maximum)
  - OKIFAX 5200/5300 (84 stations at maximum)
  - OKIFAX 5500/5600 (134 stations at maximum)
- Delayed broadcast mode

(21) No paper/no toner reception

(22) Memory-only reception (OKIFAX 5000 series)
(Memory reception even if paper does not run out)

(23) Distinguishing Text from picture (Rev.2)

(24) Page re-transmission (Only in case of memory TX mode)

(25) Reduction printing (OKIOFFICE44/OKIFAX4100/5300/5600)
Rev.3 (Reduction rate is from 100% to 75%)

(26) Smoothing printing (In case of 3.85ℓ /mm → 7.7ℓ /mm)

(27) Programmed key operation ("F" key + "OT" key)

(28) Auto dialing

• One-touch dialing	OKIOFFICE44/OKIFAX 4100:	10 locations
	OKIFAX 5200/5300:	15 locations
	OKIFAX 5500/5600:	30 locations
• Two-digit automatic dialing	OKIOFFICE44/OKIFAX 4100:	45 locations
	OKIFAX 5200/5300:	64 locations
	OKIFAX 5500/5600:	99 locations

- Keypad dialing
- Chain dialing
- Mixed dialing
- Group dialing

OKIOFFICE44/OKIFAX 4100:	5 dialing groups
OKIFAX 5200/5300:	10 dialing groups
OKIFAX 5500/5600:	20 dialing groups

(Rev.2)

(29) Realtime dialing
(In case of optional handset is installed or Hook key)

(30) Automatic pause signal insertion

(31) Manual feeder local copy

(32) Telephone directory (Alpha search) dialing

(33) TEL/FAX automatic switching

(34) Time and date printing

(35) Closed users group (Direct mail rejection)

(36) Transmission contrast and resolution control

(37) Key touch tone

(38) Printer counter display (For drum, toner, total print)

(39) Total page counter (Scan)

(40) Quick scanning 6 sec. minimum → A4 size 3.85ℓ /mm for OKIFAX 5200/5300
Quick scanning 3 sec. minimum → A4 size 3.85ℓ /mm for OKIFAX 5500/5600

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(41) Date and clock adjustment

(42) PC interface (option) (Rev.3)
- Standard: OKIOFFICE44
- Option: OKIFAX 4100/5200/5300/5500/5600

(43) Language selection
- 2 languages (LCD and Reports)

(42) Fax fowarding (for OKIFAX 5500/5600)

(44) Reports (Rev.2)
- Activity report
- Protocol report (Service man setting)
- Message confirmation report (Single address or multiple addresses)
- Broad cast entry report (Broadcast)
- Transmission error report
- Confidential reception report
- Configuration report
- Telephone directory
- Power outage report

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1.3 General Maintenance Functions

(1) Self-diagnosis
- CPU ROM/RAM check
- FLASH (/MASK) memory check (Program, Language, Default)
- RAM check
- RAM check (MEMORY board: option)
- PC-IF board (parallel) check
- Print test

(2) Sensor calibration (Adjustment of scanning level) (Rev.2)

(3) LED test

(4) Tone send test

(5) Multi-frequency (MF) send test

(6) High-speed modem send test

(7) High-speed modem receive test

(8) Tone (TEL/FAX) test

(9) Remote diagnosis

(10) System reset

(11) Service default report (Machine setting for service engineer)

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1.4 General Appearance

Figure 1.4.1 shows the general appearance of the OKIOFFICE44/OKIFAX 4100.
Figure 1.4.2 shows the general appearance of the OKIFAX 5000 series.
Figure 1.4.3 shows the control panel of the OKIOFFICE44/OKIFAX 4100.
Figure 1.4.4 shows the control panel of the OKIFAX 5200/5300.
Figure 1.4.5 shows the control panel of the OKIFAX 5500/5600.

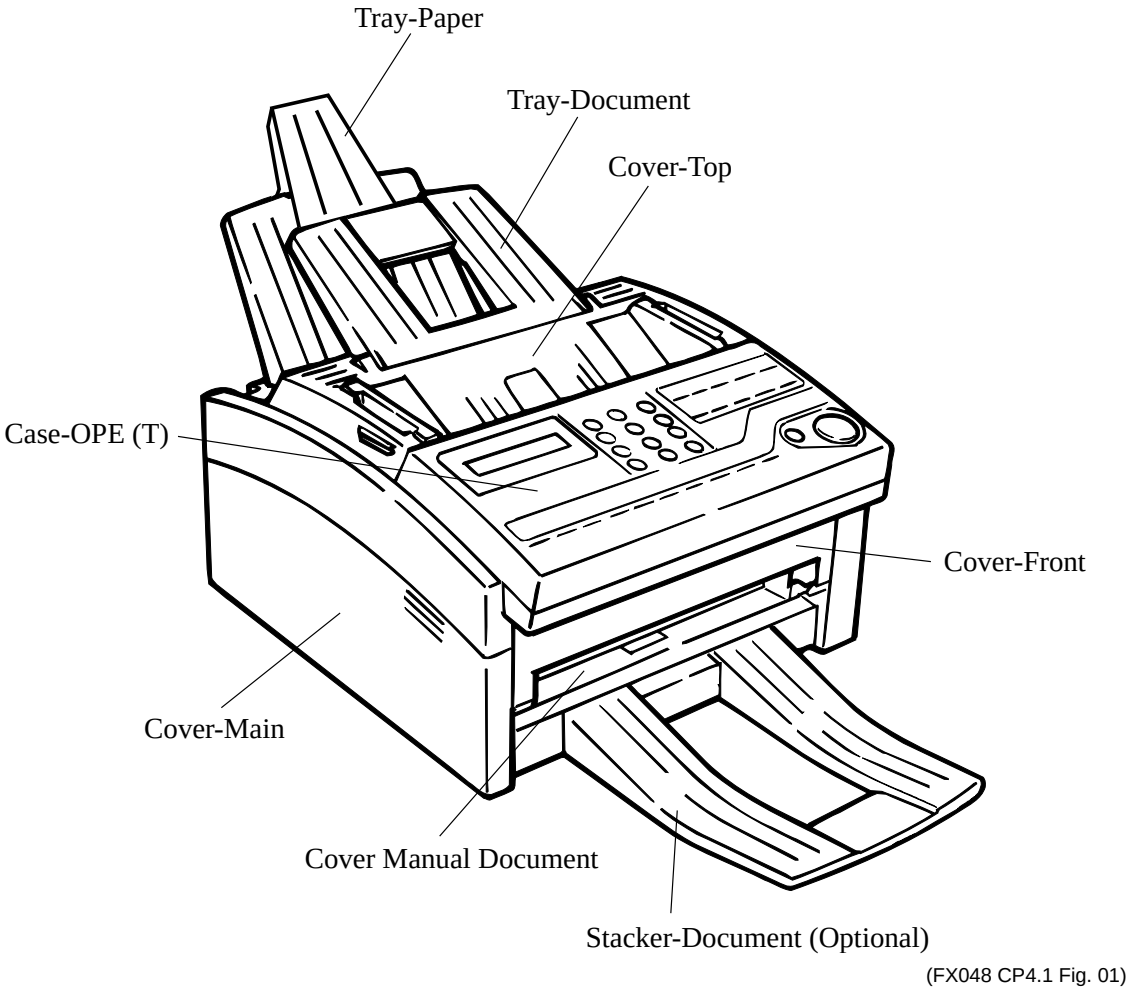

Figure 1.4.1 General Appearance of OKIOFFICE44/OKIFAX 4100

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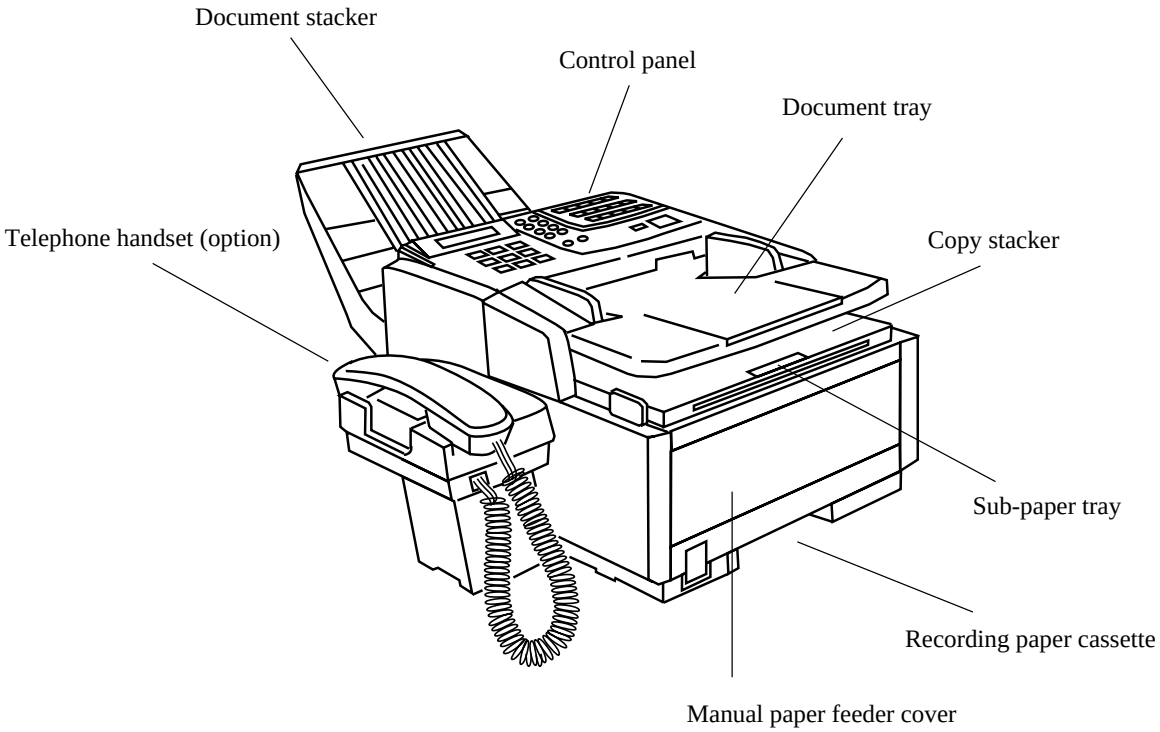

Figure 1.4.2 General Appearance of OKIFAX 5000 series

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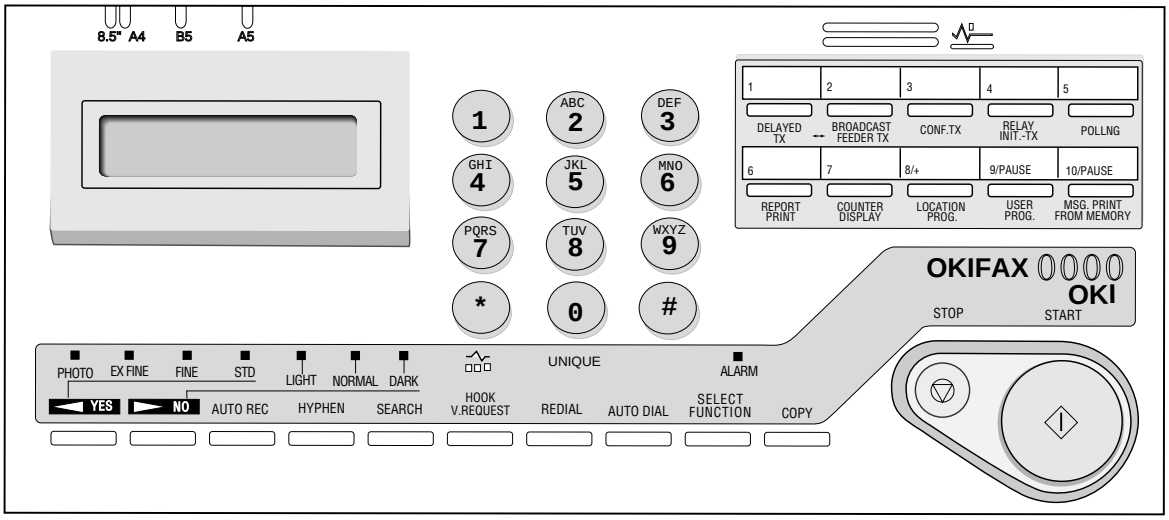

Fiture 1.4.3 Control Panel of OKIFAX 4100

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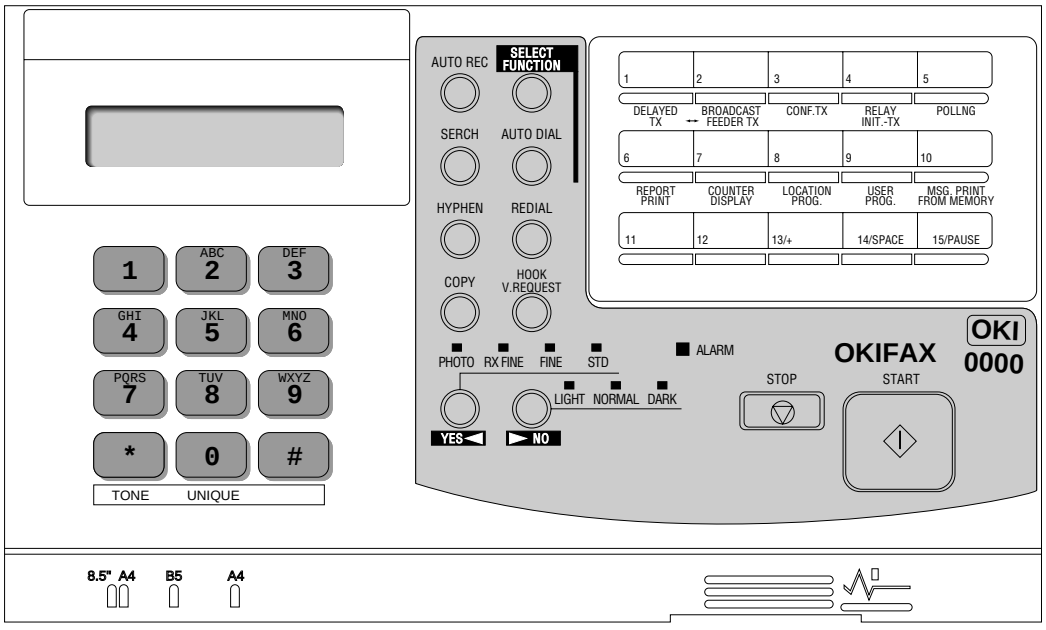

Fiture 1.4.4 Control Panel of OKIFAX 5000 series

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1.5 Basic Performance Specifications

Table 1.5.1 shows basic performance specifications.

Note: TF: Technical function setting
FP: Function program setting
OT: One-touch key pressed
F: SELECT FUNCTION key pressed

Table 1.5.1 (1/10) Basic Performance Specifications

No.	Item	Specifications
1	Applicable line	1) General switched telephone network (GSTN) 2) Private branch exchange (PBX) (OT9+2)
2 Rev.3	Line interface 1) Impedance	600Ω balanced
	2) Sending power level	0 dBm to –15 dBm range (Adjustable in 1 dB steps. TF + 22)
	3) Receiving power level	–6 dBm to –46 dBm
3 Rev.3	Type of document to be transmitted 1) Width	Max. 216 mm (NA Letter) Min. 148 mm (ISO A5 size) ***Note:*** Effective reading width is NA Letter (215 mm).
	2) Length	Min. 128 mm Max. 356 mm (14 inches) Long document detection: 380 mm, or 60 minutes * TF + 11 (To enable or disable the long document scanning)
	3) Thickness	Based on common bond paper, a) 0.08 to 0.13 mm for multiple page feeding b) 0.06 to 0.15 mm for single page feeding
	4) Shape	Rectangular
	5) Opacity	Documents allowing less than 40% of the scanner source light to pass through them.

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Table 1.5.1 (2/10) Basic Performance Specifications

<table>
<tr><th>No.</th><th>Item</th><th>Specifications</th></tr>
<tr><td>4
Rev.2</td><td>Effective reading width</td><td></td></tr>
<tr><td></td><td colspan="2">
<table>
<tr><th>Document width</th><th>Communication Mode/Paper width</th><th>Effective reading width</th><th>Copy size</th></tr>
<tr><td>ISO A4 (210 mm)
[INT'L/FTZ]</td><td>G3/A4</td><td>OKIOFFICE44/OKIFAX 4100
208 mm for TX
200 mm for local copy
OKIFAX 5000 series
208 mm for TX
202.8 mm for local copy</td><td>A4</td></tr>
<tr><td>NA letter (216 mm)
[US/CANADA]</td><td>G3/A4</td><td>OKIOFFICE44/OKIFAX 4100
215 mm for TX
200 mm for local copy
OKIFAX 5000 series
215.1 mm for TX
211.2 mm for local copy</td><td>Letter</td></tr>
<tr><td>NA legal (216 mm)
[US/CANADA]</td><td>G3/A4</td><td>OKIOFFICE44/OKIFAX 4100
215 mm for TX
200 mm for local copy
OKIFAX 5000 series
215.1 mm for TX
211.2 mm for local copy</td><td>Legal</td></tr>
</table>
Note Local copy: Pritable reading width in local copy mode
</td></tr>
<tr><td>5
Rev.3</td><td>Automatic document feeder (ADF)</td><td>Max. 20 documents for OKIOFFICE44/OKIFAX 4100: NA Letter or A4 (20-1b)
Max. 30 documents for OKIFAX 5000 series: NA Letter or A4 (20-1b)
Max. 15 documents: NA Letter or A4 (13-28lb bond paper)
Documents shall be placed facedown on ADF stacker.
The first sheet will be fed first in the feeder and will exit facedown in the document stacker.</td></tr>
<tr><td>6</td><td>Document skew</td><td>Max. 2.6 mm skew over a document of A4 length.
For a document longer than A4 length, occurrence of skew exceeding 2.6 mm over any A4 length is 0.5% or less.</td></tr>
<tr><td>7</td><td>Document jam detection</td><td>1) Transmission will stop and line disconnection will occur when the end of a document is not detected within 356 mm after scanning begins (except for the long document scanning. TF + 11)

2) A jam will also be declared if the document does not reach the scanning position within 5.5 seconds (OKIFAX 5000 series)/ 10 seconds (OKIOFFICE44/OKIFAX 4100) after the start of a document feed.

Note: When a jam is detected during message transmission from the feeder, the machine will stop scanning and disconnect the line, but its receiving capability will remain valid.</td></tr>
<tr><td>8</td><td>Document jam removal</td><td>Manual release</td></tr>
</table>

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Table 1.5.1 (3/10) Basic Performance Specifications

No.	Item	Specifications
9	Recording paper or sheet	For the first or second recording paper cassette: 1) Type: Plain paper cut (Bond paper) 2) Size: ISO A4 (210 mm x 297 mm) NA Letter (215.9 mm x 279.4 mm)/(8.5 inch x 11 inch) NA Legal (215.9 mm x 355.6 mm)/(8.5 inch x 14 inch) 3) Weight: 16 lbs to 24 lbs/base weight Base weight is defined as the weight of 500 sheets of 431.8 mm (17 inch) by 558.8 mm (22 inch). 4) Thickness: 0.08 mm to 0.12 mm 5) Condition: New paper For the manual loading feeder on the first cassette: (OKIOFFICE44/OKIFAX 4100/5000 series) 1) Type: Plain paper, transparency for overhead projector, colored paper, printed paper 2) Size: A4/NA Letter/NA Legal 3) Weight, thickness and condition: Same as above ***Note:*** One single sheet only should be loaded on the manual loading feeder for any one occasion. For best results use Oki Data recommended papers 1) Xerox 4200 (20 - lb/base weight paper) 2) L-type paper for photo-printers
10	Recording paper cassette	
	1) First tray (For OKIOFFICE44/ OKIFAX 4100)	100 sheets/tray (Oki Data recommended paper)
	2) First cassette (For OKIFAX 5000 series)	250 sheets/cassette (Oki Data recommended paper)
	3) Second cassette (Option) (For OKIFAX 5000 series)	500 sheets/cassette (Oki Data recommended paper)

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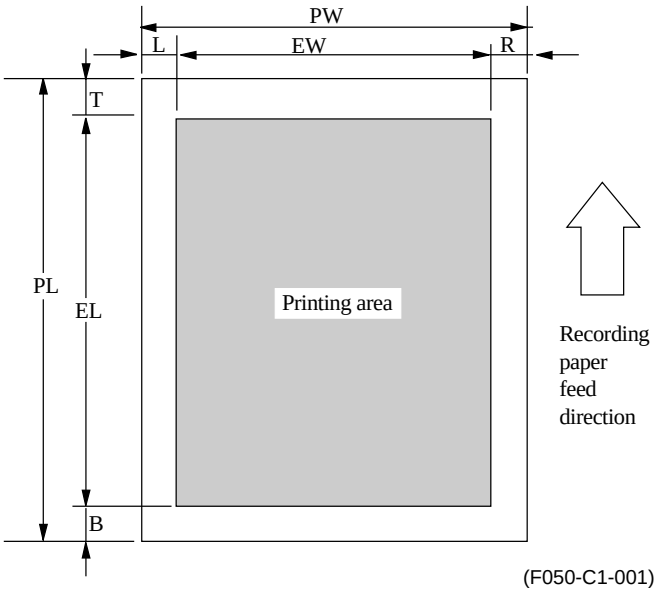
Table 1.5.1 (4/10) Basic Performance Specifications

No.	Item	Specifications
11 Rev.2	Effective recording area	 (F050-C1-001)

Note: These tables do not include vertical and horizontal addressing deviations (+ or –2 mm) of recording paper.

For OKIOFFICE44/OKIFAX 4100:

1) Printable area

	NA LETTER SIZE		ISO A4 SIZE		14 inch LEGAL SIZE		13 inch LEGAL SIZE	
	inch	mm	inch	mm	inch	mm	inch	mm
PL	11	279.4	11.7	297	14	355.6	13	330.2
PW	8.5	216	8.27	210	8.5	216	8.5	216
EL	10.76	273.4	11.46	291	13.76	349.6	12.76	324.2
EW	8.0	203.2	8.0	203.2	8.0	203.2	8.0	203.2
T	0.12	3	0.12	3	0.12	3	0.12	3
B	0.12	3	0.12	3	0.12	3	0.12	3
L	0.25	6.35	0.13	3.4	0.25	6.35	0.25	6.35
R	0.25	6.35	0.13	3.4	0.25	6.35	0.25	6.35

2) Guaranteed printing area

	NA LETTER SIZE		ISO A4 SIZE		14 inch LEGAL SIZE		13 inch LEGAL SIZE	
	inch	mm	inch	mm	inch	mm	inch	mm
PL	11	279.4	11.7	297	14	355.6	13	330.2
PW	8.5	216	8.27	210	8.5	216	8.5	216
EL	10.5	266.7	11.2	284.3	13.5	342.9	12.5	317.5
EW	8.0	203.2	7.77	197.3	8.0	203.2	8.0	203.2
T	0.25	6.35	0.25	6.35	0.25	6.35	0.25	6.35
B	0.25	6.35	0.25	6.35	0.25	6.35	0.25	6.35
L	0.25	6.35	0.25	6.35	0.25	6.35	0.25	6.35
R	0.25	6.35	0.25	6.35	0.25	6.35	0.25	6.35

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Table 1.5.1 (5/10) Basic Performance Specifications

<table>
<tr><th>No.</th><th>Item</th><th>Specifications</th></tr>
<tr><td></td><td>For OKIFAX 5000 series:

1) Printable area</td><td></td></tr>
<tr><td></td><td colspan="2">
<table>
<tr><th></th><th colspan="2">NA LETTER SIZE</th><th colspan="2">ISO A4 SIZE</th><th colspan="2">14 inch LEGAL SIZE</th><th colspan="2">13 inch LEGAL SIZE</th></tr>
<tr><th></th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th></tr>
<tr><td>PL</td><td>11</td><td>279.4</td><td>11.7</td><td>297</td><td>14</td><td>355.6</td><td>13</td><td>330.2</td></tr>
<tr><td>PW</td><td>8.5</td><td>216</td><td>8.27</td><td>210</td><td>8.5</td><td>216</td><td>8.5</td><td>216</td></tr>
<tr><td>EL</td><td>10.76</td><td>273.4</td><td>11.46</td><td>291</td><td>13.76</td><td>349.6</td><td>12.76</td><td>324.2</td></tr>
<tr><td>EW</td><td>8.32</td><td>211.3</td><td>8.11</td><td>206</td><td>8.32</td><td>211.3</td><td>8.32</td><td>211.3</td></tr>
<tr><td>T</td><td>0.12</td><td>3</td><td>0.12</td><td>3</td><td>0.12</td><td>3</td><td>0.12</td><td>3</td></tr>
<tr><td>B</td><td>0.12</td><td>3</td><td>0.12</td><td>3</td><td>0.12</td><td>3</td><td>0.12</td><td>3</td></tr>
<tr><td>L</td><td>0.09</td><td>2.3</td><td>0.08</td><td>2</td><td>0.09</td><td>2.3</td><td>0.09</td><td>2.3</td></tr>
<tr><td>R</td><td>0.09</td><td>2.3</td><td>0.08</td><td>2</td><td>0.09</td><td>2.3</td><td>0.09</td><td>2.3</td></tr>
</table>
2) Guaranteed printing area
<table>
<tr><th></th><th colspan="2">NA LETTER SIZE</th><th colspan="2">ISO A4 SIZE</th><th colspan="2">14 inch LEGAL SIZE</th><th colspan="2">13 inch LEGAL SIZE</th></tr>
<tr><th></th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th></tr>
<tr><td>PL</td><td>11</td><td>279.4</td><td>11.7</td><td>297</td><td>14</td><td>355.6</td><td>13</td><td>330.2</td></tr>
<tr><td>PW</td><td>8.5</td><td>216</td><td>8.27</td><td>210</td><td>8.5</td><td>216</td><td>8.5</td><td>216</td></tr>
<tr><td>EL</td><td>10.5</td><td>266.7</td><td>11.2</td><td>284.3</td><td>13.5</td><td>342.9</td><td>12.5</td><td>317.5</td></tr>
<tr><td>EW</td><td>8.0</td><td>203.2</td><td>7.77</td><td>197.3</td><td>8.0</td><td>203.2</td><td>8</td><td>203.2</td></tr>
<tr><td>T</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td></tr>
<tr><td>B</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td></tr>
<tr><td>L</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td></tr>
<tr><td>R</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td><td>0.25</td><td>6.35</td></tr>
</table>
</td></tr>
<tr><td>12</td><td>Copy stacking</td><td>For OKIOFFICE44/OKIFAX 4100:
The fax can discharge printed copies and stack them faceup.
Maximum sheets on the copy stacker: 30*

For OKIFAX 5000 series:
The fax can discharge printed copies and stack them facedown.
Maximum sheets on the copy stacker: 100*

Note*: Oki Data recommended paper</td></tr>
<tr><td>13

Rev.2</td><td>Scanning resolution</td><td>Horizontal:
• 8 pel/mm for OKIOFFICE44/OKIFAX 4100 and OKIFAX 5200/5500 of INT’L version.
• 300 dot/inch for OKIFAX 5300/5600 of ODA version.

Vertical:
Transmission mode:
• 3.85 line/mm (STD), 7.7 line/mm (FINE) or 15.4 line/mm (EX. FINE) for OKIFAX 4100 and OKIFAX 5200/5500 of INT’L version.
• 3.85 line/mm (STD), 7.7 line/mm (FINE) or 300 dot/inch,(EX. FINE) for OKIFAX 5300/5600 of ODA version.
COPY mode:
7.7 line/mm (FINE) or 15.4 line/mm (EX.FINE) for OKIOFFICE44/OKIFAX 4100 and OKIFAX 5200/5500 of INT’L version.
7.7 line/ mm(FINE) or 300 dot/inch(EX. FINE) for OKIFAX5300/5600 of ODA version.</td></tr>
</table>

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Table 1.5.1 (6/10) Basic Performance Specifications

No.	Item	Specifications
14 Rev.2	Image scanning method	NA Letter size (1728-bit) contact image sensor for OKIOFFICE44, OKIFAX4100/5200/5500 NA Letteer size (2592-bit) contact image sensor for OKIFAX 5300/5600
15	Contrast control	1) Automatic background sensing A continuous document background of 0.3 OD (optical density) or less will be transmitted as white. 2) The LIGHT and DARK contrasts will automatically be adjusted to improve image quality.
16 Rev.2	Recording resolution	Horizontal: • 300 dot/inch Vertical: • 3.85 line/mm (STD), 7.7 line/mm (FINE) for OKIOFFICE44/OKIFAX 4100 and OKIFAX 5200/5500 of INT'L version. • 3.85 line/mm (STD), 7.7 line/mm (FINE), 300 dot/inch (FX-FINE) for OKIFAX 5300/5600 of ODA version.
17	Recording system	Electro-photographic printing 1) 211.3mm (2496 bit) or 216.7mm (2560 bit) LED print head
18	Skew of recording paper	Maximum allowable skew is + or - 1 mm over an advance of 100 mm.
19	Copy darkness	1) Black image: Greater than 1.0 OD (Optical density) 2) White background: Not greater than 0.2 OD (Optical density)
20	Copy uniformity	Printed copies will exhibit a uniform density of the printed and background area: 1) From edge to edge: 25% unit 2) From copy to the next copy: 30% unit
21 Rev.3	Recording paper running out	The fax can detect the no-paper condition by a photosensor. When the paper has run out in the local copy operation, the scanning will stop with "NO PAPER ... REPLACE PAPER" on the LCD for OKIFAX 5000 series and "PAPER OUT/JAM" on the LCD for OKIOFFICE44/OKIFAX4100 and an ALARM LED turns on without an alarm tone. When the paper has run out while a message is being received and the no-paper reception is activated, the LCD display will show "MSG. IN MEMORY", and the ALARM LED turns on.
22	Minimum scan line time for receiving	0 ms, when receiving from an Oki Data facsimile. 5 ms at 7.7 line/mm and 10 ms at 3.85 line/mm when receiving from a non-Oki Data facsimile.
23	Coding scheme	1) One-dimensional coding scheme: Modified Huffman (MH) 2) Two-dimensional coding scheme: Modified READ (MR) Modified modified READ (MMR)

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Table 1.5.1 (7/10) Basic Performance Specifications

No.	Item	Specifications
24 Rev.2	MODEM 1) High-speed MODEM	a) ITU-T Rec. V.29 (9600/7200 bps) b) ITU-T Rec. V.27 ter (4800/2400 bps) c) ITU-T Rec. V.17 (14400/12000/9600/7200 bps) d) ITU-T Rec. V.33 (14400/12000 bps) e) ITU-T Rec. V.34 (28800 bps); for OKIFAX 5500/5600 ***Note:*** 33600 bps (V.34) is available for OKIFAX 5500/5600 when serviceman set to enable.
	2) Low-speed MODEM	ITU-T Rec. V.21 channel 2 (300 bps)
25 Rev.2	Fallback	Automatic fallback will occur according to the following sequence by FTT, RTN or PPR.

Fallback rank	Transmission speed	Activated by FTT (Times)	Activated by RTN (Times)	Activated by PPR (Times)	Protocol
1st	14400 bps	1	1	4 (Note 1)	ITU-T V.17 (V.33)
2nd	12000 bps	1	1	4 (Note 1)	ITU-T V.17 (V.33)
3rd	9600 bps	1	1	4 (Note 1)	ITU-T V.17 (V.29)
4th	7200 bps	1	1	4 (Note 1)	ITU-T V.17 (V.29)
5th	4800 bps	2	1	4 (Note 1)	ITU-T V.27 ter.
6th	2400 bps	2	1	4 (Note 1)	ITU-T V.27 ter.

When the last trial fails, the transmitting station sends out a DCN signal to the remote station for disconnection.

Note 1: Continuous PPRs for the same partial page within each fallback rank.

Fallback rank	Transmission speed	Activated byPPR (Times)	Protocol
1st	28800 bps	1 (Note 1)	ITU-T V.34
2nd	26400 bps	1 (Note 1)	ITU-T V.34
3rd	24000 bps	1 (Note 1)	ITU-T V.34
4th	21600 bps	1 (Note 1)	ITU-T V.34
5th	19200 bps	1 (Note 1)	ITU-T V.34
6th	16800 bps	1 (Note 1)	ITU-T V.34
7th	14400 bps	1 (Note 1)	ITU-T V.34
8th	12000 bps	1 (Note 1)	ITU-T V.34
9th	9600 bps	1 (Note 1)	ITU-T V.34
10th	7200 bps	1 (Note 1)	ITU-T V.34
11th	4800 bps	1 (Note 1)	ITU-T V.34
12th	2400 bps	1 (Note 1)	ITU-T V.34

Note 2: V.34 modern performs the fall-back depending upon the line condition automatically.

26	Protocol	1) ITU-T Rec. T.30 2) Oki Data special protocol High-speed protocol The T.30 protocol signal from the transmitting station is sent at message transmission speed instead of 300 bps. ***Note:*** In high-speed protocol, 28.8 K-bps are not supported.

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Table 1.5.1 (8/10) Basic Performance Specifications

<table>
<tr><th>No.</th><th>Item</th><th>Specifications</th></tr>
<tr><td>27
Rev.2</td><td>Transmission time</td><td>3 sec.(approx 3.5 sec) /ITU-T No. 1 sample document (OKIFAX 5500/5600)
6 sec.(approx 6.9 sec) /ITU-T No. 1 sample document (OKIOFFICE44, OKIFAX 4100/5000 series)

Note: This is Phase C time at 3.85 line/mm and 28800 bps for 3 sec. and 14400 bps for 6 sec. in MMR code transmission.</td></tr>
<tr><td>28</td><td>Error correction</td><td>ITU-T Error correction mode (ECM)
Oki Data ITU-T ECM</td></tr>
<tr><td>29</td><td>Communication mode</td><td>Half-duplex</td></tr>
<tr><td>30</td><td>Ringing signal detection sensitivity

1) Voltage range

2) Frequency range

3) Ring response time</td><td>

25 to 150 V r.m.s.
Inoperative below 10 V

20 to 68 Hz

One-ringing signal or 5 to 30 seconds.
(Selectable in 5 sec. steps. F + OT9 + ← + 11)</td></tr>
<tr><td>31
Rev.2</td><td>Image memory</td><td>
<table>
<tr><th></th><th>Basic model</th><th>Optional memory</th></tr>
<tr><td>OKIOFFICE44/OKIFAX 4100</td><td>256K-byte</td><td>1M-byte</td></tr>
<tr><td>OKIFAX 5200/5300</td><td>256K-byte</td><td>1M-byte</td></tr>
<tr><td>OKIFAX 5500/5600</td><td>512K-byte</td><td>1M-byte/2M-byte</td></tr>
</table>
<table>
<tr><th></th><th>Memory condition</th><th>OKIFAX 4100 OKIOFFICE44 [pages]</th><th>OKIFAX 5200/5300 [pages]</th><th>OKIFAX 5500/5600 A4 Setting [pages]</th></tr>
<tr><td rowspan="3">With option board</td><td>Standard (without option)</td><td>20</td><td>20</td><td>5500: 30*1
5500: 26*2
5600: 38</td></tr>
<tr><td>1M-byte</td><td>100</td><td>100</td><td>120</td></tr>
<tr><td>2M-byte</td><td></td><td></td><td>200</td></tr>
</table>
*1 CTR board is not mounted.
*2 CTR board is mounted.

Note: ITU-T No.1 sample document is used to count the number of sheets.

Back-up time on electrical interruption:
Min. one hour (OKIFAX 5000 series with option memory)

Note: OKIOFFICE44/OKIFAX 4100 and OKIFAX 5000 series without option memory does not back up the message received in memory for the power failure.</td></tr>
<tr><td>32</td><td>Telephone handset (option)</td><td>General telephone function is available while the power is on.

Note: In the fax special versions, general telephone is available even when the power is off.</td></tr>
</table>

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Table 1.5.1 (9/10) Basic Performance Specifications

<table>
<tr><th>No.</th><th>Item</th><th>Specifications</th></tr>
<tr><td>34</td><td>Overheat protection</td><td>The heater of the fuser unit is controlled within the predetermined temperature range by the thermistor. If the temperature of the heater exceeds the range, the LCD displays “PRINTER ALARM 4”.

Furthermore, the built-in thermostat in the fuser unit prevents the heater from being overheated even in the event of the failures in the above temperature control circuit.</td></tr>
<tr><td>35
Rev.3</td><td>PC interface applications (Option)

Note: This function is the standard for OKI OFFICE44.</td><td>The following four modes are supported:
1) PC local printer function
2) PC scanner function
3) PC FaxModem function
4) Location Programing function

Note: This function will be supplied as the OKIFAX 4100/5200/5300/5500/5600 option in case Oki Data can get the approval in respective countries without modifying the optional unit.

For, details, see product specification for MFP.</td></tr>
<tr><td>36
Rev.3</td><td>Power supply unit and power consumption of the machine</td><td>Power consumption of the machine
(Typical power)
<table>
<tr><th></th><th>OKIOFFICE44</th><th>OKIFAX 4100</th><th>OKIFAX 5200/5500</th><th>OKIFAX 5300/5600</th></tr>
<tr><td>Transmit</td><td>19W</td><td>21W</td><td>60W</td><td>60W</td></tr>
<tr><td>Receive</td><td>115W</td><td>112W</td><td>160W</td><td>160W</td></tr>
<tr><td>Local copy</td><td>150W</td><td>150W</td><td>210W</td><td>210W</td></tr>
<tr><td>Standby
(Power Save OFF)</td><td>10W</td><td>10W</td><td>16.6W</td><td>16.6W</td></tr>
<tr><td>Standby
(Power Save ON)</td><td></td><td>0.5W</td><td>0.5W</td><td></td></tr>
</table>
** OKIOFFICE44 has standard PC interface, therfore has no power save mode. OKIFAX5300/5600 has no power save mode.</td></tr>
<tr><td>37</td><td>Ambient condition

1) Operating condition

2) Storage condition</td><td>

See Figure 1.5.1

See Figure 1.5.1</td></tr>
</table>

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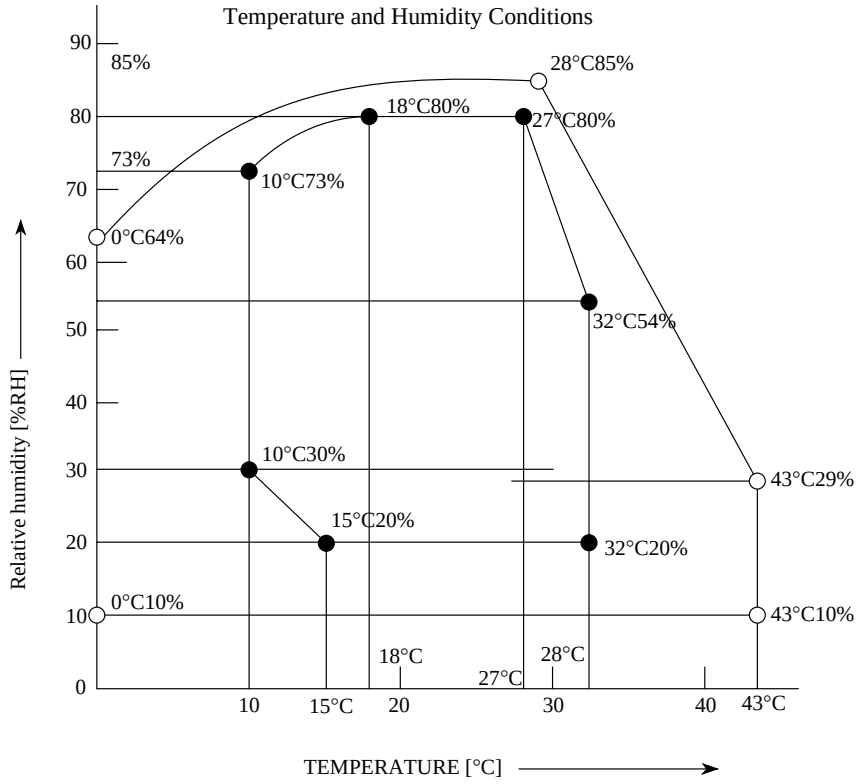
Table 1.5.1 (10/10) Basic Performance Specifications

No.	Item	Specifications



Area enclosed by lines with ● : Range where printing is guaranteed.
Area enclosed by lines with ○ : Range for storage without power supply.

(Note) The curve connecting 28°C, 85% and 0°C, 64% is the condensation curve.

Figure 1.5.1 Ambient Conditions

38 Rev.2	Dimension (Main body)	For OKIOFFICE44/OKIFAX 4100: 1) Width: Approx. 312 mm 2) Depth: Approx. 383 mm 3) Height: Approx. 190 mm OKIFAX 5000 series: 1) Width: Approx. 330 mm 2) Depth: Approx. 420 mm 3) Height: Approx. 245 mm
39	Weight (Main body)	Approx. 8 kg for OKIOFFICE44/OKIFAX 4100 Approx. 13 kg for OKIFAX 5000 series Excluding optional units, recording paper and packing materials.
40	Attachment (to the main body)	1) AC power cord x 1 2) I/D unit x 1 (Already installed) 3) Toner cartridge x 1 4) Telephone handset x 1 (option) 5) Curled cord and Telephone cord for (4) x 1 (option) 6) Document stacker x 1 7) Line cord x 1 8) One touch sheet x 1 (Already installed) 9) User's guide x 1

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1.6 Reports and Lists

Table 1.6.1 shows Reports and Lists Specifications.

Note: F +OT: Press FUNCTION and One-touch key
FP: Function program setting
TF: Technical function setting

Table 1.6.1 (1/2) Reports and Lists Specifications

No.	Item	Specifications
1	Call-back message	The transmitter sends a call-back message to the receiver only when the receiver does not respond to voice request of the transmitter.
2	Sender ID	The fax can transmit a programmed alphanumeric message, such as company's name, consisting of up to 32 characters. * (Outside only)
3	Transmitting subscriber identification(TSI) printing	Received TSI can be printed at the top of the received page. * TF + 05 (To enable or disable this function)
4	Cancel report (Power outage report)	The fax can automatically print out a power-outage report when the power off condition occurs.
5 Rev.3	Activity report	The fax can print out an activity report manually, and provides a record of your fax machine's last 30 communications. This report does not contain the results of messages which were received without errors. However it does contain messages received in memory with or without errors. * REPORT PRINTOUT+1(Manual printout)
6	Message confirmation report	The fax can print out a message confirmation report manually or automatically in the following cases. (1) When COPY key is pressed after a single location call, this report can be printed. (Manual printout) * FP + 01 (To enable or disable automatic printing)
7	Broadcast entry report	The fax can print out a broadcast entry report if specified during operating sequence of a broadcast.
8	Broadcast confirmation report	The fax can print out a broadcast confirmation report manually or automatically. * COPY key (Manual printout): Pressed after a broadcast. * REPORT PRINTOUT + 2 (Manual printout) * FP +02 (To enable or disable automatic printing)

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Table 1.6.1 (2/2) Reports and Lists Specifications

No.	Item	Specifications
9 Rev.3	Confidential reception report	OKIFAX 5000 series can print out this report automatically on completion of a confidential reception.
10	Telephone directory	This directory is printed manually. (REPORT PRINTING +3)
11	Configuration report	This report is printed manually. (REPORT PRINTING +4)

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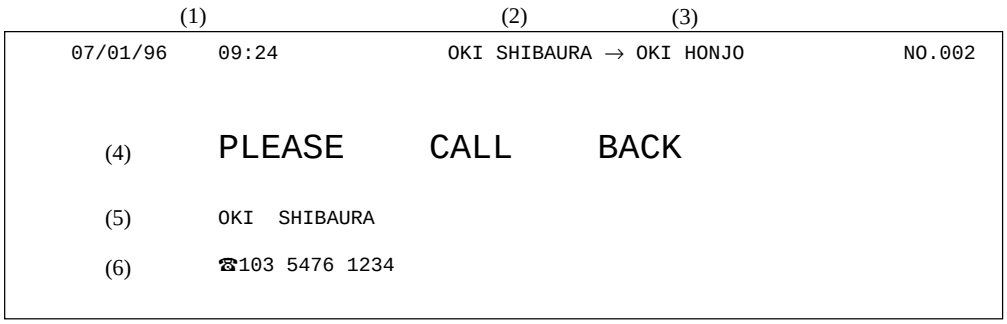
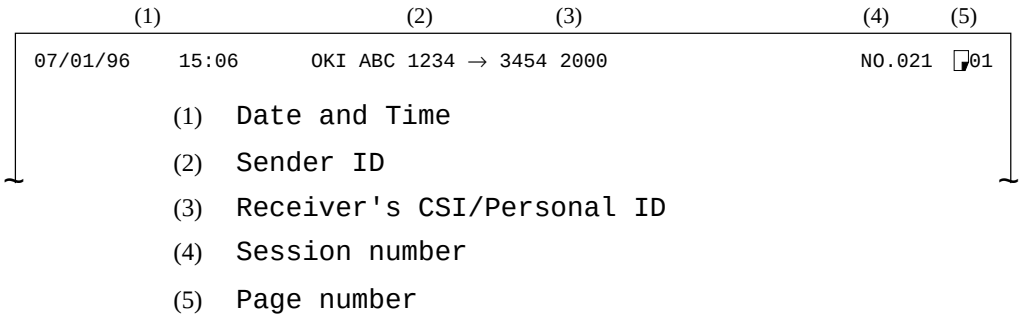
Call-back Message Format: (Example)



(F050-C1-002)

(1) Date and time
(2) Sender ID
(3) CSI/Personal ID
(4) Letters "PLEASE CALL BACK"
(5) Sender ID
(6) Sender's call back telephone number

Sender ID Format: (Example)



(F050-C1-003)

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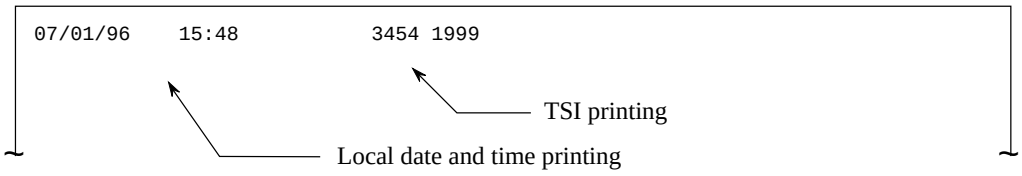
TSI Printing and Local Date and Time Printing Format: (Example)



(F050-C1-004)

Note: TSI printing (TF+05)
Local date and time printing (TF+04)

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Cancel Report Format: (Example)

POWER OUTAGE REPORT

05/19/96 17:05
ID=OKI

DATE	TIME	S,R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT	
05/17	10:10		0485-88-3385				9080
05/17	10:30		ODS TAKASAKI		03		0000
05/17	12:05	01'20"	OKI FAX	BOX=01	03	OK	0000
05/17	13:00	00'20"	03-5476-4300	CALLED	01	OK	0000
05/17	15:40		034567092222	FWD-T	05		
05/18	10:50	01'20"	0495-22-5400	CALLED	03	OK	0000
05/18	15:00			B.C.	01		

Note: Memory reception only is printed on the mode in the report as called.

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(1) **Activity Report Format: (Example)**

ACTIVITY REPORT

(2) 05/19/96 17:05
(3) ID=OKI

(4) TOTAL TIME CALLING=08:22' CALLED=17:30'

DATE (5)	TIME (6)	S,R-TIME (7)	DISTANT STATION ID (8)	MODE (9)	PAGES (10)	RESULT (11)	(12)	
05/17	10:00	01'20"	OKI FAX	CALLING	02	OK	0000	
05/17	10:10	01'00"	0485 88 3385	CALLING	00	STOP	9080	
05/17	10:30	00'20"	ODS TAKASAKI	CALLING	00	NO	90C1	
05/17	12:05	01'20"	OKI FAX	CALLING	03	OK	0000	
05/17	13:00	00'20"	03 5476 4300	CALLING	01	OK	0000	
05/17	15:40	03'25"	ODS TAKASAKI	BOX=01	03	OK	0000	*1
05/17	19:00	00'00"	OKI FAX		01	OK	0000	*2
05/18	10:10	02'00"	OKI SHIBAURA	CALLED	05	NO	908E	
05/18	10:22	00'12"	0495 22 5400	CALLING	00	STOP	9080	
05/18	10:50	01'20"	0495 22 5400	CALLED	03	NO	9090	
05/18	12:05	00'20"	OKI FAX	CALLING	01	STOP	9080	
05/18	15:00	01'30"		CALLED	03	OK	0000	*3
05/18	15:30	00'20"		CALLING	01	OK	0000	
05/18	17:05	05'20"		B.C.		COMP.	60A0	*4
05/18	19:04	00'20"	03 5476 4300	CALLING	00	STOP	9080	
05/19	09:00	01'11"		CALLING	02	OK	0000	
05/19	10:20	00'20"	03 5476 4300	CALLING	02	STOP	9080	
05/19	10:35	02'23"		BOX=01	02	OK	0000	*1
05/19	10:50	00'20"	ODS TAKASAKI	CALLED	01	OK	0000	
05/19	11:03	00'00"	OKI FAX	CALLING	00	STOP	9080	
05/19	13:00	00'24"	03 5476 4300		01	OK	0000	*5
05/19	16:00	03'25"	ODS TAKASAKI	FWD-R	03	OK	0000	*6
05/19	16:04	03'30"	OKIFAX	FWD-T	03	OK	0000	*7

*1 : Confidential reception
*2 : Manual TX
*3 : Memory reception
*4 : Broadcast TX
*5 : Manual memory reception
*6 : Reception for forwarding(OKIFAX 5500/5600)
*7 : Forwarding(OKIFAX 5500/5600)

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(1) Title of the report
(2) Date and time when the report was printed
(3) Sender ID
(4) Total CALLING and CALLED time
(5) Date of transmission or reception
(6) Time when the communication started
(7) Time span of the fax communication.
(8) Identification of the remote station
Personal ID/Location ID/TSI/CSI/Dial number or space
(9) Communication mode: (Rev.3)
CALLING (Transmission)
CALLED (Reception NG or MEMORY RX)
B. C. (Broadcast)
BOX=XX (Confidential reception for OKIFAX 5000 series)
FWD-R (Fax Fowarding RX)
FWD-T (Fax Fowarding TX)
POLLED (polling TX) in case of country code=GER, AUT, SUI
POLLING (polling RX) in case of country code=GER, AUT, SUI
(10) Number of transmitted pages or received pages
(11) Result code
OK (Note1)/NO/STOP (Note 2)/BUSY/PAPER (Out of recording paper)/S_JAM (Document jam)/R_JAM (Recording paper jam)/COVER/COMP (Completion of a broadcast)/PUNIT (Printer Alarm)/CANCL (Confidential reception T.O.)

Note 1: The following cases are included:
- Unmatched handshaking to the received NSF.
- Unmatched password to the received NSC in the polling transmission mode.

Note 2: The following cases are included:
- The STOP key is pressed.
- The memory cancellation operation removes the message from the active memory files.

(12) Service code

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Message Confirmation Report Format (1/2): (Example)

(1) MESSAGE CONFIRMATION

(2) 07/01/96 08:05
(3) ID=OKI

(4) DATE	(5) S.R-TIME	(6) DISTANT STATION ID	(7) MODE	(8) PAGES	(9) RESULT	(10)
07/01	00'20"	OKI FAX	CALLING	02	OK	0000

(F050-C1-008 1/2)

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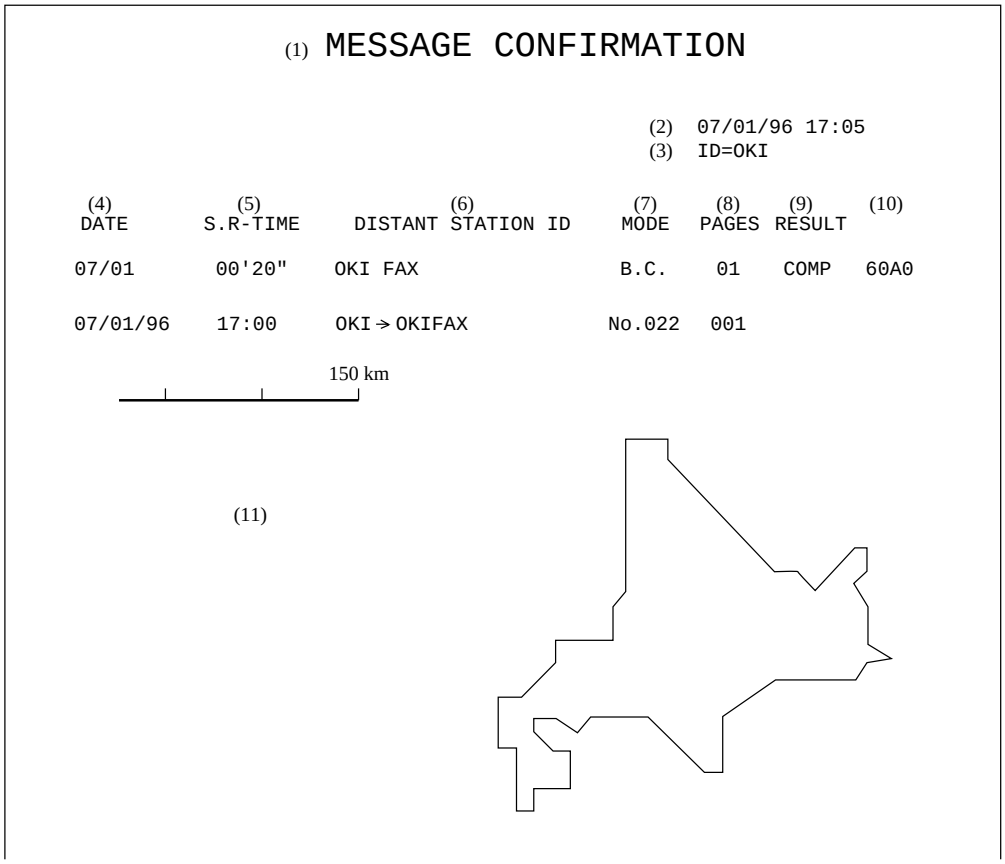
Message Confirmation Report Format (2/2): (Example)



(F050-C1-008 2/2)

(1) Title of the report
(2) Date and time when the report was printed
(3) Sender ID
(4) Date of transmission or reception
(5) Length of time for which the fax was connected to the line
(6) Identification of the remote station
Personal ID/Location ID/TSI/CSI/Dial number
(7) Communication mode
Reference to ACTIVITY REPORT
(8) Number of transmitted pages or received pages
(9) Result of the communication
Reference to ACTIVITY REPORT
(10) Service code
(11) Message

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Broadcast Entry Report Format: (Example)

BROADCAST ENTRY REPORT

07/01/96 17:05
ID=OKI

LOCATION ID	LOCATION ID	LOCATION ID
ONE TOUCH		
1 = OT1	2 = OT2	3 = OT3
4 = OT4	5 = OT5	6 = OT6
7 = OT7	8 = OT8	9 = OT9
10 = OT10 *1	11 = OT11	12 = OT12
13 = OT13	14 = OT14	15 = OT15 *2
16 = OT16	17 = OT17	18 = OT18
19 = OT19	20 = OT20	21 = OT21
22 = OT22	23 = OT23	24 = OT24
25 = OT25	26 = OT26	27 = OT27
28 = OT28	29 = OT29	30 = OT30 *3
AUTO DIAL		
01 = AD1	02 = AD2	03 = AD3
04 = AD4	05 = AD5	06 = AD6
07 = AD7	08 = AD8	09 = AD9
10 = AD10	11 = AD11	12 = AD12
13 = AD13	14 = AD14	15 = AD15
16 = AD16	17 = AD17	18 = AD18
19 = AD19	20 = AD20	21 = AD21
22 = AD22	23 = AD23	24 = AD24
25 = AD25	26 = AD26	27 = AD27
28 = AD28	29 = AD29	30 = AD30
31 = 31	32 = 32	33 = 33
34 = 34	35 = 35	36 = 36
37 = 37	38 = 38	39 = 39
40 = 40	41 = 41	42 = 42
43 = 43	44 = 44	45 = 45 *1
46 = 46	47 = 47	48 = 48
49 = 49	50 = 50	51 = 51
52 = 52	53 = 53	54 = 54
55 = 55	56 = 56	57 = 57
58 = 58	59 = 59	60 = 60
61 = 61	62 = 62	63 = 63
64 = 64 *2	65 = 65	66 = 66
67 = 67	68 = 68	69 = 69
70 = 70	71 = 71	72 = 72
73 = 73	74 = 74	75 = 75
76 = 76	77 = 77	78 = 78
79 = 79	80 = 80	81 = 81
82 = 82	83 = 83	84 = 84
85 = 85	86 = 86	87 = 87
88 = 88	89 = 89	90 = 90
91 = 91	92 = 92	93 = 93
94 = 94	95 = 95	96 = 96
97 = 97	98 = 98	99 = 99 *3

KEYPAD

1234
2345
3456
4567

	MAX. OT	AD	KEYPAD
*1 OKIOFFICE44/OKIFAX4100 :	10	45	1
*2 OKIFAX5200/5300 :	15	64	5
*3 OKIFAX5500/5600 :	30	99	5

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Broadcast Confirmation Report Format: (Example)

BROADCAST CONFIRMATION REPORT

07/01/96 17:05
PAGES = 01
ID=OKI

TOTAL TIME = 00:02'30"

LOCATION ID	PAGES	RESULT	LOCATION ID	PAGES	RESULT
ONE TOUCH					
1 = OT1*1	01	OK	2 = OT2*1	01	OK
3 = OT3*1	01	OK	4 = OT4*1	01	OK
5 = OT5*1	01	OK			
AUTO DIL					
01 = AD1*1	01	OK	02 = AD2*1	01	OK
03 = AD3*1	01	OK	04 = GERMAN*1	01	OK
05 = AD5*1	01	OK			
KEYPAD					
1234*1	01	OK			
3456*1	01	OK			
5678*1	01	OK			

(F030-C1-010)

*1: Identification of remote station
Personal ID, TSI, Location ID or Dial number
(Printing in this order depending if information is programed in remote fax machine)

Confidential Reception Report Format: (Example)

CONFIDENTIAL RX REPORT

07/01/96 17:05
ID=OKI

DATE	TIME	S,R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT	
07/01	00:20	00'00"	OKI FAX*2	BOX=01	02	OK	0000

*2: Identification of remote station
Personal ID or CSI

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Telephone Directory for OKIOFFICE44/OKIFAX 4100 (1/2): (Example)

TELEPHONE DIRECTORY P1

07/01/96 19:19
ID=OKI DATA CORP.

	LOCATION ID	TEL NO.	PRM. ECHO
ONE TOUCH			
1	OKI SERVICE	123 123 123	(OFF)
		OR 111 222 333	
2	OKI OFFICE	456 456 456	(OFF)
		OR 444 555 666	
3	OKI LABORATORY	789 789 789	(OFF)
		OR 777 888 999	
4	ODC TAKASAKI	000 111 222	(OFF)
		OR 444 555 666	
5	ODC QA/QC LAB.	1234 5678 90123	(OFF)
		OR 123 123 123	
6			(OFF)
		OR	
7			(OFF)
		OR	
8			(OFF)
		OR	
9			(OFF)
		OR	
10			(OFF)
		OR	
AUTO DIAL			
01			
02			
03			
04			
05			
06			
07	ODC TAKASAKI	0273 28 1234	
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
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Telephone Directory for OKIOFFICE44/OKIFAX 4100 (2/2): (Example)

TELEPHONE DIRECTORY P2

07/01/96 19:20
ID=OKI DATA CORP.

GROUP NUMBER = #1 #2 #3 #4 #5

#1 ONE TOUCH
1 2 3 4 5 6 7 8 9 10

AUTO DIAL
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28 29 30 31 32 33

#2 ONE TOUCH

AUTO DIAL

#3 ONE TOUCH

AUTO DIAL

#4 ONE TOUCH

AUTO DIAL

#5 ONE TOUCH
5

AUTO DIAL
07

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Telephone Directory for OKIFAX 5200/5300 (1/4): (Example)

TELEPHONE DIRECTORY P1

07/01/96 18:31
ID=OKI

ONE TOUCH	LOCATION ID	TEL NO.	PRM. ECHO
1	OKI SERVICE	123 123 456 OR 111 222 333	(OFF)
2		OR	(OFF)
3		OR	(OFF)
4		OR	(OFF)
5		OR	(OFF)
6		OR	(OFF)
7		OR	(OFF)
8		OR	(OFF)
9		OR	(OFF)
10		OR	(OFF)
11		OR	(OFF)
12		OR	(OFF)
13		OR	(OFF)
14		OR	(OFF)
15		OR	(OFF)

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Telephone Directory for OKIFAX 5200/5300 (2/4): (Example)

TELEPHONE DIRECTORY P2

07/01/96 18:31
ID=OKI

AUTO DIAL	LOCATION ID	TEL NO.
01	ODC TAKASAKI	1234 56 7890
02		1234 56 7780
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
16		
17		
18		
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(F050-C1-017)

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Telephone Directory for OKIFAX 5200/5300 (3/4): (Example)

TELEPHONE DIRECTORY P3

07/01/96 18:32
ID=OKI

GROUP NUMBER = #1 #2 #3 #4 #5 #6 #7

#1 ONE TOUCH
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

AUTO DIAL
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28 29 30

#2 ONE TOUCH
1 5 10 15

AUTO DIAL
07 30 40

#3 ONE TOUCH

AUTO DIAL

#4 ONE TOUCH

AUTO DIAL

#5 ONE TOUCH

AUTO DIAL

#6 ONE TOUCH

AUTO DIAL

#7 ONE TOUCH

AUTO DIAL

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Telephone Directory for OKIFAX 5200/5300 (4/4): (Example)

```
                    TELEPHONE DIRECTORY P4

                                                07/01/96 18:32
                                                ID=OKI


GROUP NUMBER = #8 #9 #10
  #8  ONE TOUCH

      AUTO DIAL

  #9  ONE TOUCH

      AUTO DIAL


  #10 ONE TOUCH

      AUTO DIAL
```

(F050-C1-019)

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Telephone Directory for OKIFAX 5500/5600 (1/6): (Example)

TELEPHONE DIRECTORY P1

07/01/96 17:05
ID=OKI

ONE TOUCH	LOCATION ID	TEL NO.	PRM. ECHO
1	OKI SERVICE	0001 123 345	(ON)
		OR 0101 123 567	
2	ODC	0002	(OFF)
		OR 0102	
3	NEW YORK	0003	(OFF)
		OR 0103	
4	OT4 ABC	0004	(OFF)
		OR 0104	
5	XYZ CO.	0005	(OFF)
		OR 0105 111	
6	UK PLANT	0006 222	(OFF)
		OR 0106	
7	GERMANY	0007	(OFF)
		OR 0107	
8	BT	0008	(OFF)
		OR 0108	
9	FRANCE	0009	(OFF)
		OR 0109	
10	TOKYO	0010	(OFF)
		OR 0011	
11			(OFF)
		OR	
12			(OFF)
		OR	
13			(OFF)
		OR	
14			(OFF)
		OR	
15			(OFF)
		OR	
16			(OFF)
		OR	
17			(OFF)
		OR	
18			(OFF)
		OR	
19			(OFF)
		OR	
20			(OFF)
		OR	
21			(OFF)
		OR	
22			(OFF)
		OR	
23			(OFF)
		OR	
24			(OFF)
		OR	
25			(OFF)
		OR	
26			(OFF)
		OR	
27			(OFF)
		OR	
28			(OFF)
		OR	
29			(OFF)
		OR	
30			(OFF)
		OR	

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Telephone Directory for OKIFAX 5500/5600 (2/6): (Example)

TELEPHONE DIRECTORY P2

07/01/96 17:05
ID=OKI

AUTO DIAL	LOCATION ID	TEL NO.
01	TOKYO OFFICE	1001 111 222
02	PARIS	1002 111 333
03	AMERICA	1003
04	TOKYO 3	1004
05	TOKYO 5	1005
06	UK	1006
07	BT	1007
08	FRANCE	1008
09	GERMANY	1009
10	ITALY	1010
11	SPAIN	1011 567 890
12	DENMARK	1012 571 123
13	FINLAND	1013
14	SWITLAND	1014
15	OSAKA	1015 456 6789
16	TAKASAKI	1016
17	HONJO	1017
18	SHIBAURA	1018
19		
20		
21		
22		
23		
24		
25		
26		
27		
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Telephone Directory for OKIFAX 5500/5600 (3/6): (Example)

TELEPHONE DIRECTORY P3

07/01/96 17:05
ID=OKI

AUTO DIAL	LOCATION ID	TEL NO.
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
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91		
92		
93		
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95		
96		
97		
98		
99	OKIDATA	234 5678

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Telephone Directory for OKIFAX 5500/5600 (4/6): (Example)

TELEPHONE DIRECTORY P4

07/01/96 17:05
ID=OKI

```
GROUP NUMBER = #1 #2 #3 #4 #5 #6 #7

  #1  ONE TOUCH
   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25
  26  27  28  29  30
      AUTO DIAL
  01  02  03  04  05  06  07  08  09  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25
  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50
  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75
  76  77  78  79  80  81  82  83  84  85  86  87  88  89  90  91  92  93  94  95  96  97  98  99
  #2 ONE TOUCH

      AUTO DIAL



  #3  ONE TOUCH

      AUTO DIAL



  #4  ONE TOUCH

      AUTO DIAL



  #5  ONE TOUCH

      AUTO DIAL



  #6  ONE TOUCH

      AUTO DIAL



  #7  ONE TOUCH

      AUTO DIAL
```


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Telephone Directory for OKIFAX 5500/5600 (5/6): (Example)

TELEPHONE DIRECTORY P5

07/01/96 17:05
ID=OKI

GROUP NUMBER = #8 #9 #10 #11 #12 #13 #14

#8 ONE TOUCH

AUTO DIAL

#9 ONE TOUCH

AUTO DIAL

#10 ONE TOUCH

AUTO DIAL

#11 ONE TOUCH

AUTO DIAL

#12 ONE TOUCH

AUTO DIAL

#13 ONE TOUCH

AUTO DIAL

#14 ONE TOUCH

AUTO DIAL

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Telephone Directory for OKIFAX 5500/5600 (6/6): (Example)

TELEPHONE DIRECTORY P6

07/01/96 17:05
ID=OKI

GROUP NUMBER = #15 #16 #17 #18 #19 #20

#15 ONE TOUCH

AUTO DIAL

#16 ONE TOUCH

AUTO DIAL

#17 ONE TOUCH

AUTO DIAL

#18 ONE TOUCH

AUTO DIAL

#19 ONE TOUCH

AUTO DIAL

#20 ONE TOUCH

AUTO DIAL

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CONFIGURATION

07/01/96 17:05
ID=OKI

FUNCTION LIST

01:MCF (SINGLE-LOC.) ON	02:MCF (MULTI-LOC.) ON	03:ERR.REPORT (MCF) ON
04:MESSAGE IN MCF ON	05:SENDER ID. ON	06:MONITOR VOLUME LOW
07:BUZZER VOLUME MIDDLE	08:CLOSED NETWORK OFF	09:TX MODE DEFAULT FINE/NORMAL
10:T/F TIMER PRG. 35SEC	11:RING RESPONSE *3 1RING	12:DISTINCTIVE RING *3 OFF
13:1'ST PAPER SIZE A4	14:2'ND PAPER SIZE *1 A4	15:USER LANGUAGE ENGLISH
16:INCOMING RING ON	17:REMOTE RECEIVE OFF	18:MEM./FEEDER SWITCH MEMORY
19:POWER SAVE MODE *4 ON	20:ECM FUNCTION ON	21:REMOTE DIAGNOSIS OFF
22:PC/FAX SWITCH *2 ON		

TEL NO. = 12345678901234567890
CALL BACK NO. = 12345678901234567890
FORWARD TEL NO. = 12345678901234567890

REDIAL TRIES	3TRY *3	REDIAL INTERVAL	3MIN *3
DIAL TONE DETECT	OFF *3	BUSY TONE DETECT	ON *3
MF(TONE)/DP(PULSE)	MF *3	PULSE DIAL RATE	10PPS *3
PULSE MAKE RATIO	39% *3	PULSE DIAL TYPE	NORMAL *3
MF (TONE) DURATION	100MSEC *3	PBX LINE	OFF *3
PBX TYPE	NORMAL *3	AUTO START	ON *3
DIAL PREFIX	OFF *3	IT2 DETECT	ON *3

*1 Function 14 is printed when 2'nd Tray is installed.
*2 Function No.22 is printed when CTR board is installed.
*3 Depending on local PTT requirements, certain user function and dial parameters are not printed and can not be sellected by the user.
*4 Function 19 is only for OKIFAX4100/5200/5500(See page 1-20, No.35 and 36)

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Service Default Report (Configuration Report: Service bit=ON)

CONFIGURATION

07/01/96 17:05
ID=OKI

FUNCTION LIST

01:SERVICE BIT ON	02:MONITOR CONT. OFF	03:COUNTRY CODE USA
04:TIME/DATE PRINT OFF	05:TSI PRINT OFF	06:NO TONER MEM. RX ON
07:TAD MODE TYPE2	08:REAL TIME DIAL TYPE2	09:TEL/FAX SWITCH ON
10:MDY/DMY. MDY	11:LONG DOC. SCAN OFF	12:TONE FOR ECHO OFF
13:MH ONLY OFF	14:H/MODEM RATE 14.4K	15:T1 (TX) TIMER VALUE 059
16:T1 (RX) TIMER VALUE 035	17:T2 TIMER VALUE 100	18:DIS BIT32 ON
19:ERR. CRITERION VALUE 10	20:OFF HOOK BYPASS OFF	21:NL EQUALIZER 0DB
22:ATTENUATOR 10DB	23:T/F TONE ATT. 10DB	24:MF ATT. 6DB
25:RING DURA. * 10MS 12	26:CML TIMING * 100MS 3	27:LED HEAD STROBE 10100
28:LED HEAD WIDTH TYPE1	29:MEDIA TYPE MEDIUM	30:TR LATCH CURRENT +1
31:SYMBOL RATE 3200		

Note: No. 30 is only for OKIOFFICE44/OKIFAX4100.
No. 31 is only for OKIFAX5500/OKIFAX5600.

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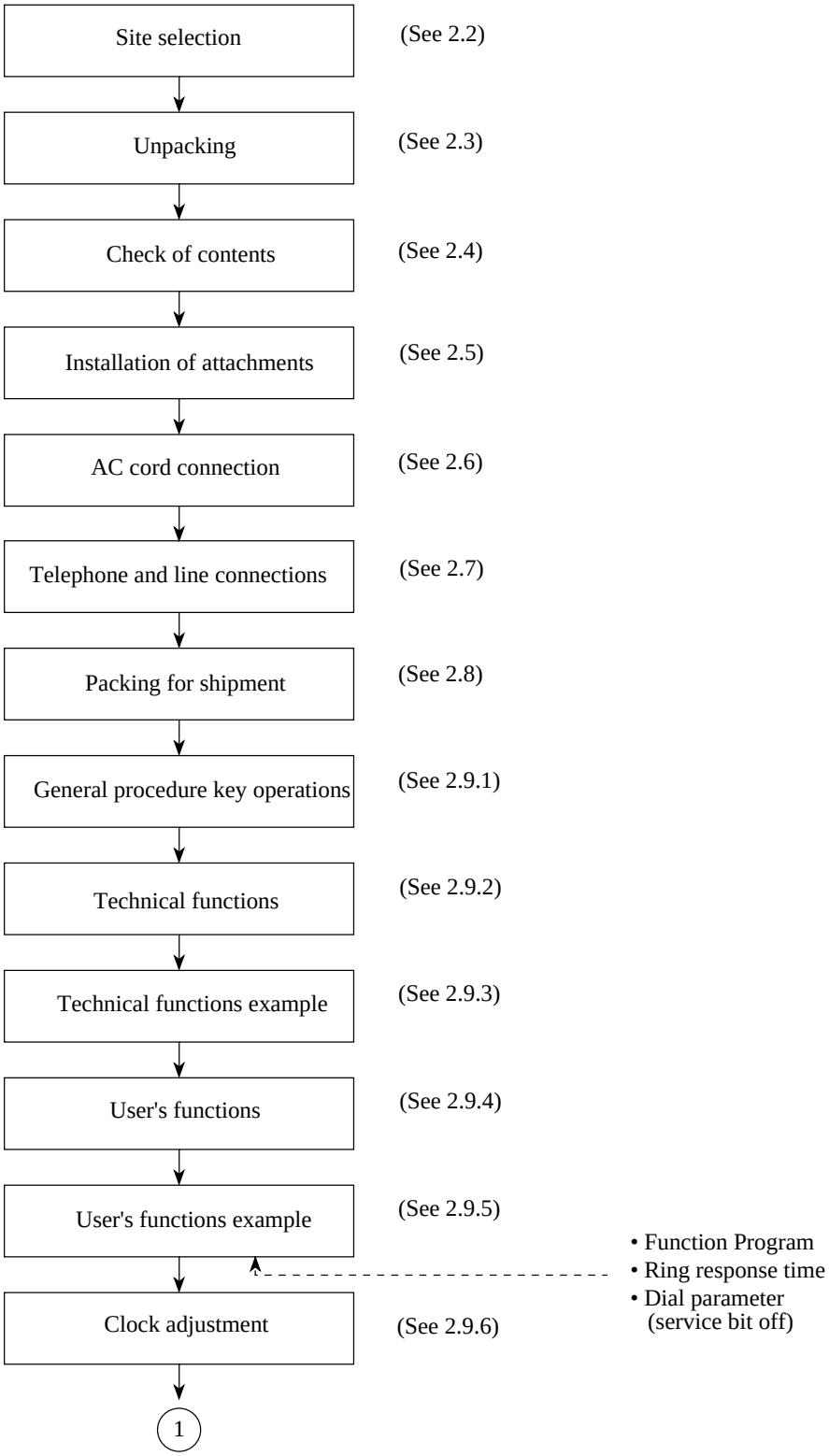
2. INSTALLATION PROCEDURE

A. Setup Information

2.1 General

The following flowchart outlines the installation procedure.



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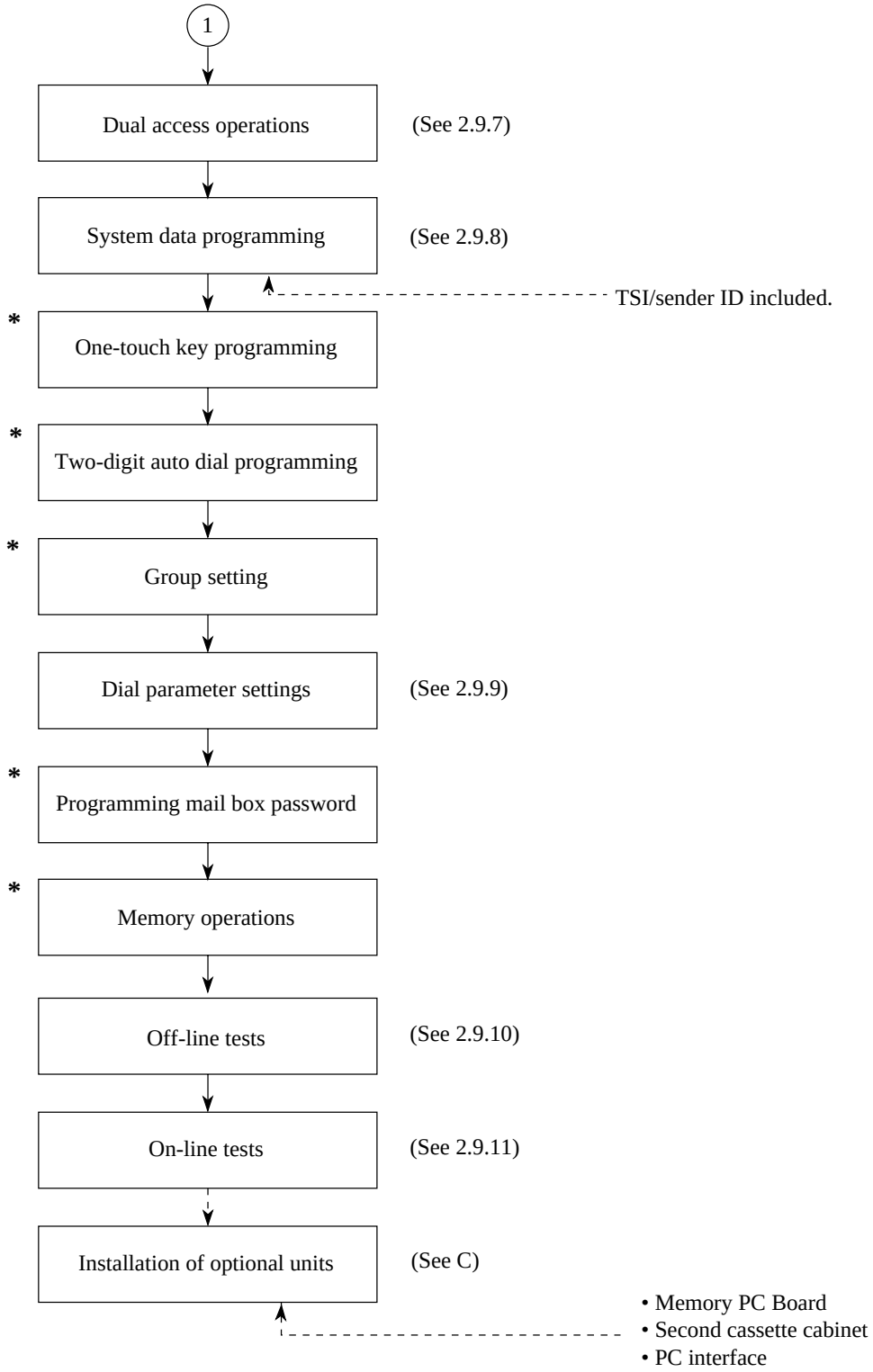

*** : See user's guide**

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2.2 Site Selection

INSTALLATION

Precautions for Installation

(1) Fluctuation in line voltage
- 120VAC (102V to 127V)
- 230VAC (198V to 264V)

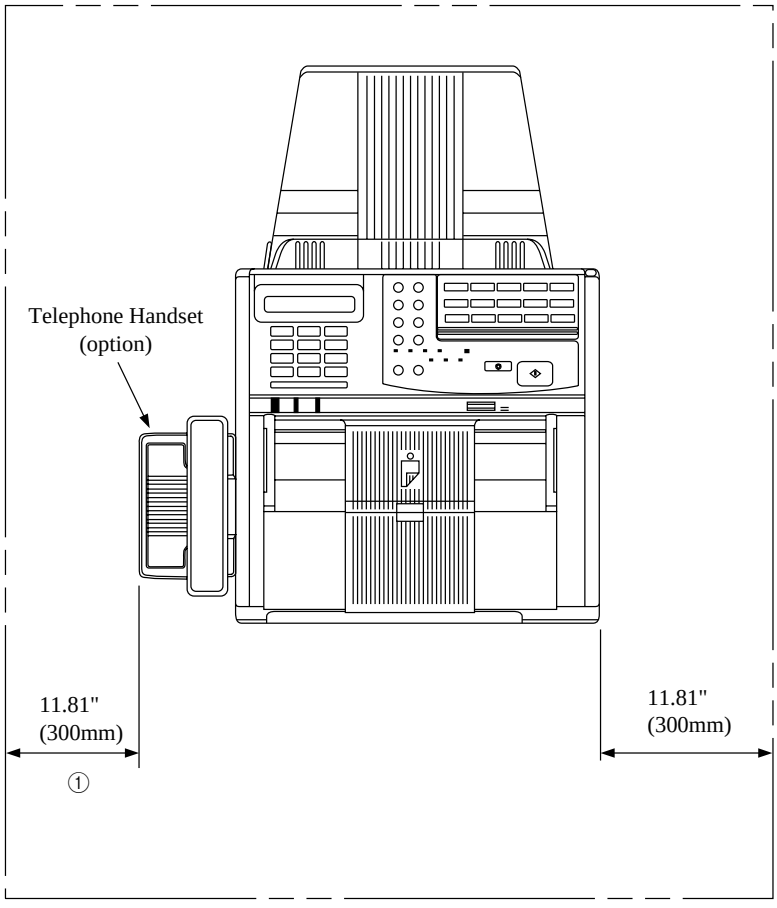
(2) Room temperature
50 to 90°F (10 to 32°C)

(3) Humidity
20 to 80% RH

(4) Operating environment
Pressure: Equivalent to altitude of 2500 m and below.

(5) Exposure
Within five minutes at luminous intensity 2,000 lux (with the stacker cover opened).
As an example, OKIFAX 5200/5300 is shown below:

(6) Required space for installation
The facsimile requires the space as shown below for safety and good operability.



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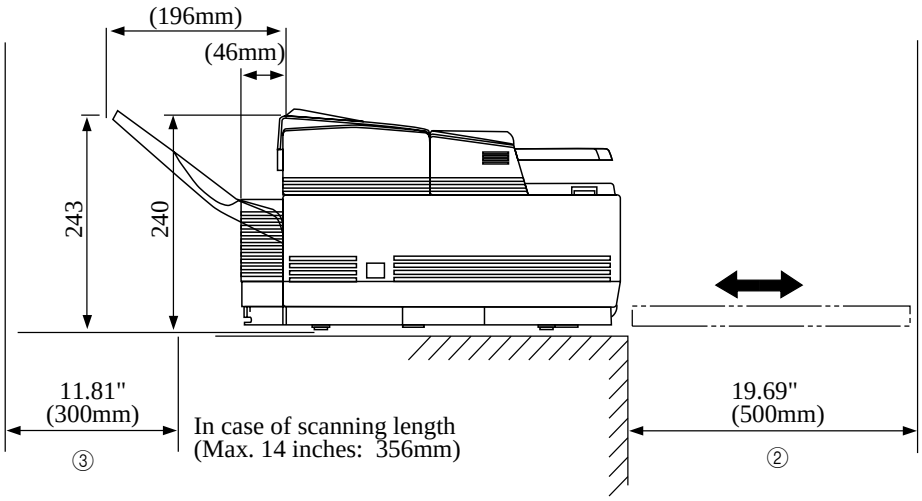

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Note: ① This space is necessary for handling the handset. (option) (page 2-3)
② This space is necessary for removing the recording paper cassette.
③ This space is necessary for installing the document stacker and to allow space for the fan exhaust.

(7) Levelness of installation surface
1 degree max.

(8) Other requirements
Avoid installing in any of the following places:
- A place exposed to direct sunlight
- A place near a heat source or exposed to vibration
- A dusty place
- A place in the atmosphere of acid gas, or steam etc.,
- A place exposed to quick temperature changes

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2.3 Unpacking

2.3.1 Unpacking for OKIOFFICE44/OKIFAX 4100

Procedure

(1) Remove tape on the top of the carton box and open its cover.

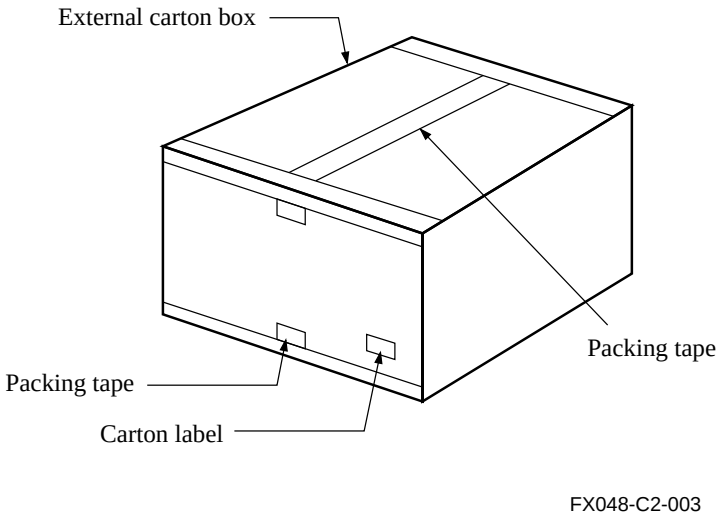

Figure 2.3.1.1 Unpacking Procedure (1)

(2) Take out the accessory box from the carton box.
(See Figure 2.3.1.1)

(3) Take out the machine with plastic wrapper from the box.

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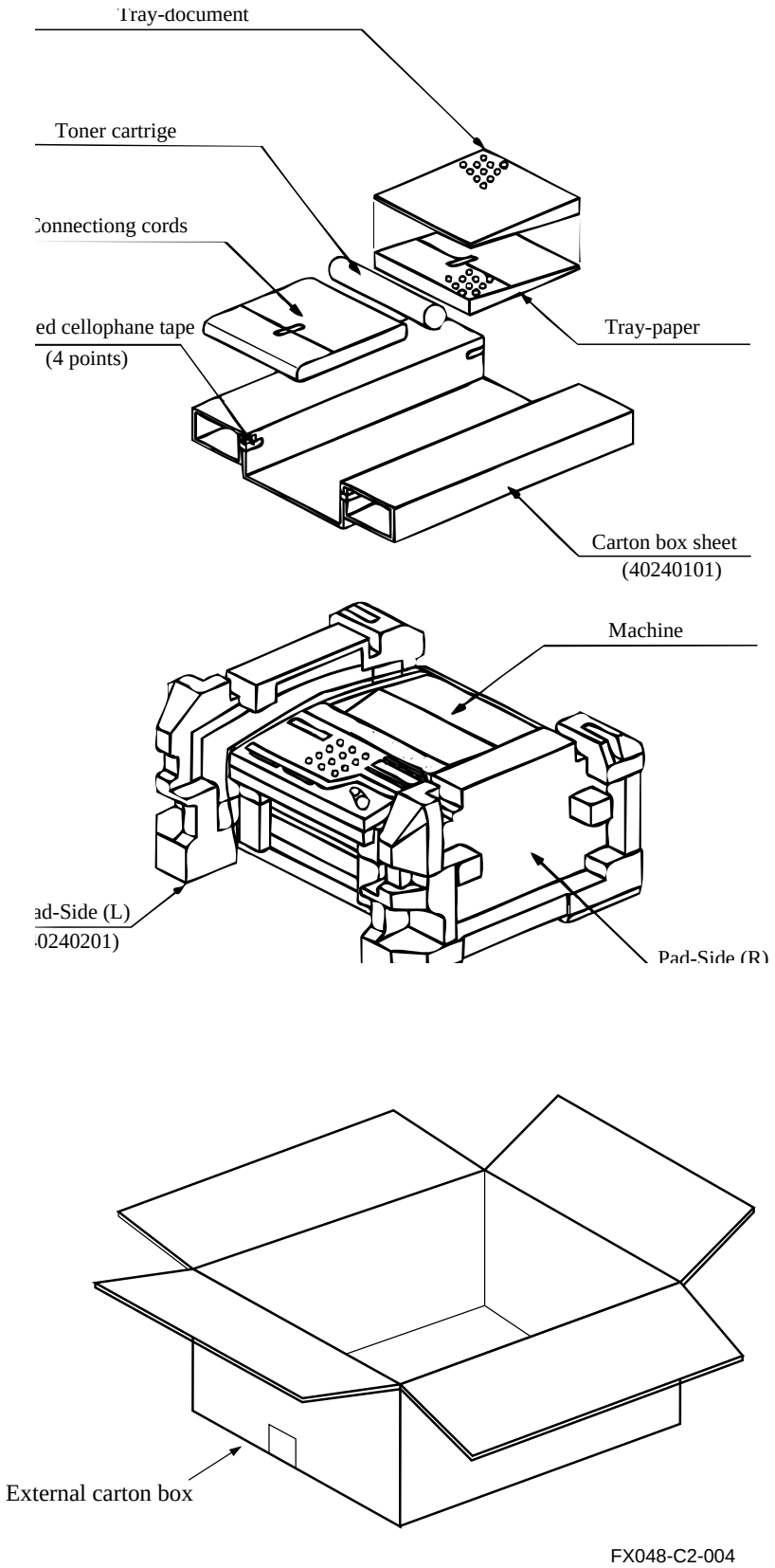

Figure 2.3.1.1 Unpacking Procedure (2)

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2.3.2 Unpacking for OKIFAX 5000 Series

Procedure

(1) Remove tape on the top of the carton box and open its cover.

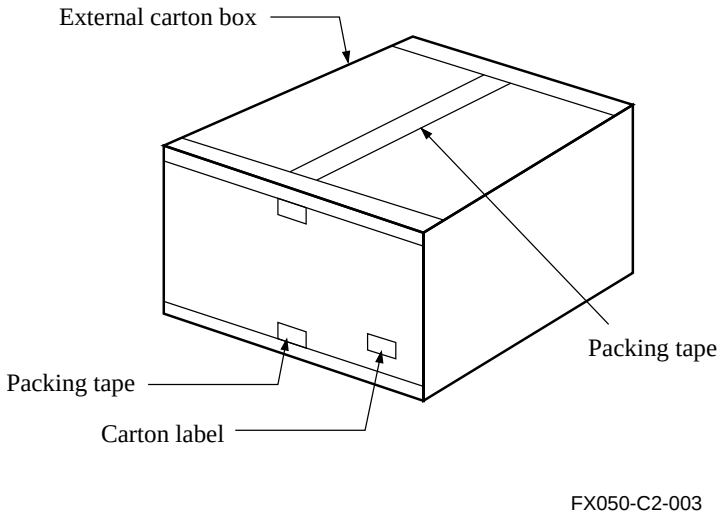

Figure 2.3.2.1 Unpacking Procedure (1)

(2) Take out the accessory box from the carton box.
(See Figure 2.3.2.1)

(3) Take out the machine with plastic wrapper from the box.

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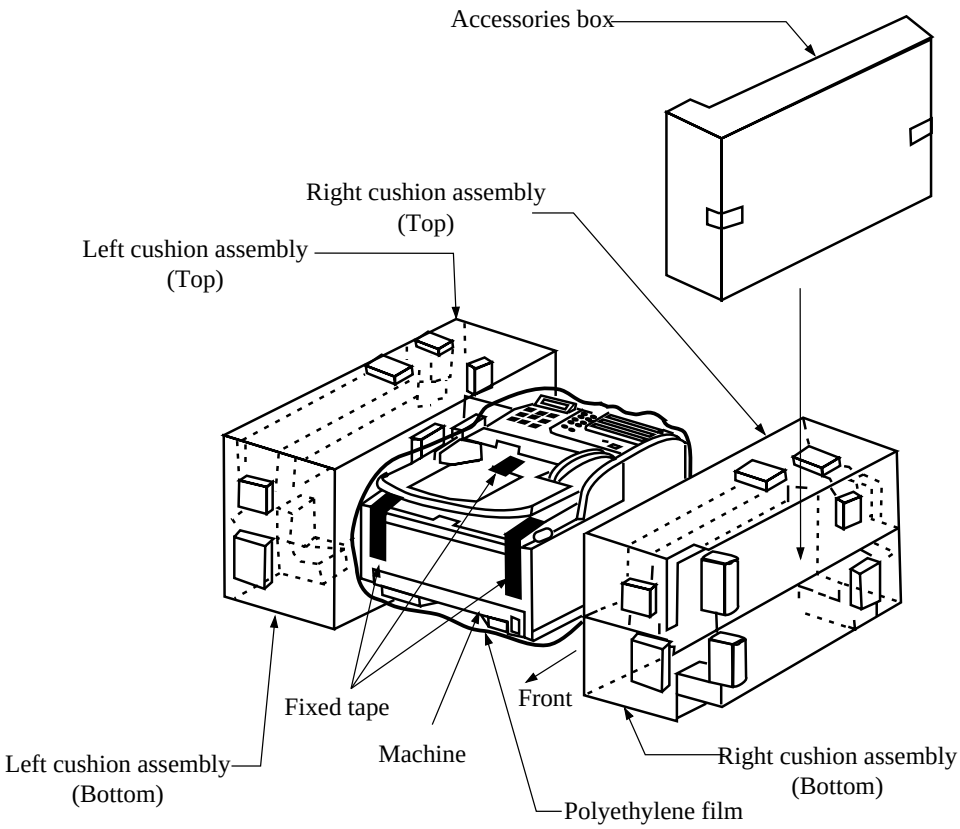

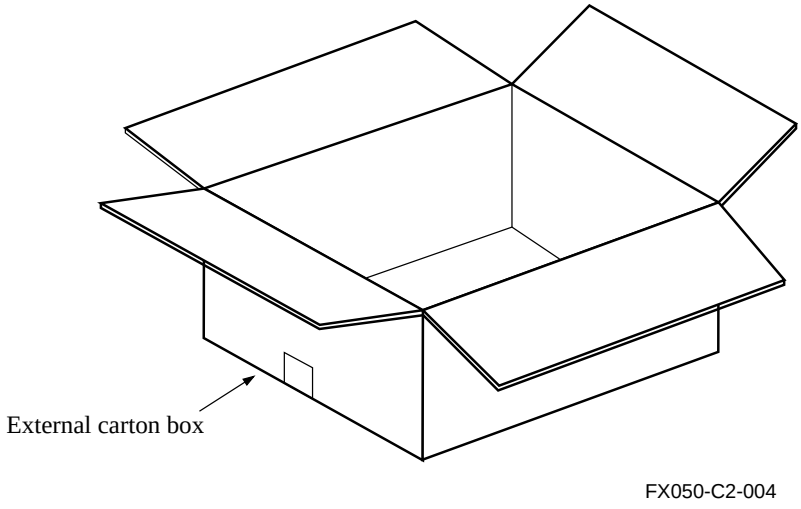

Figure 2.3.2.1 Unpacking Procedure (2)

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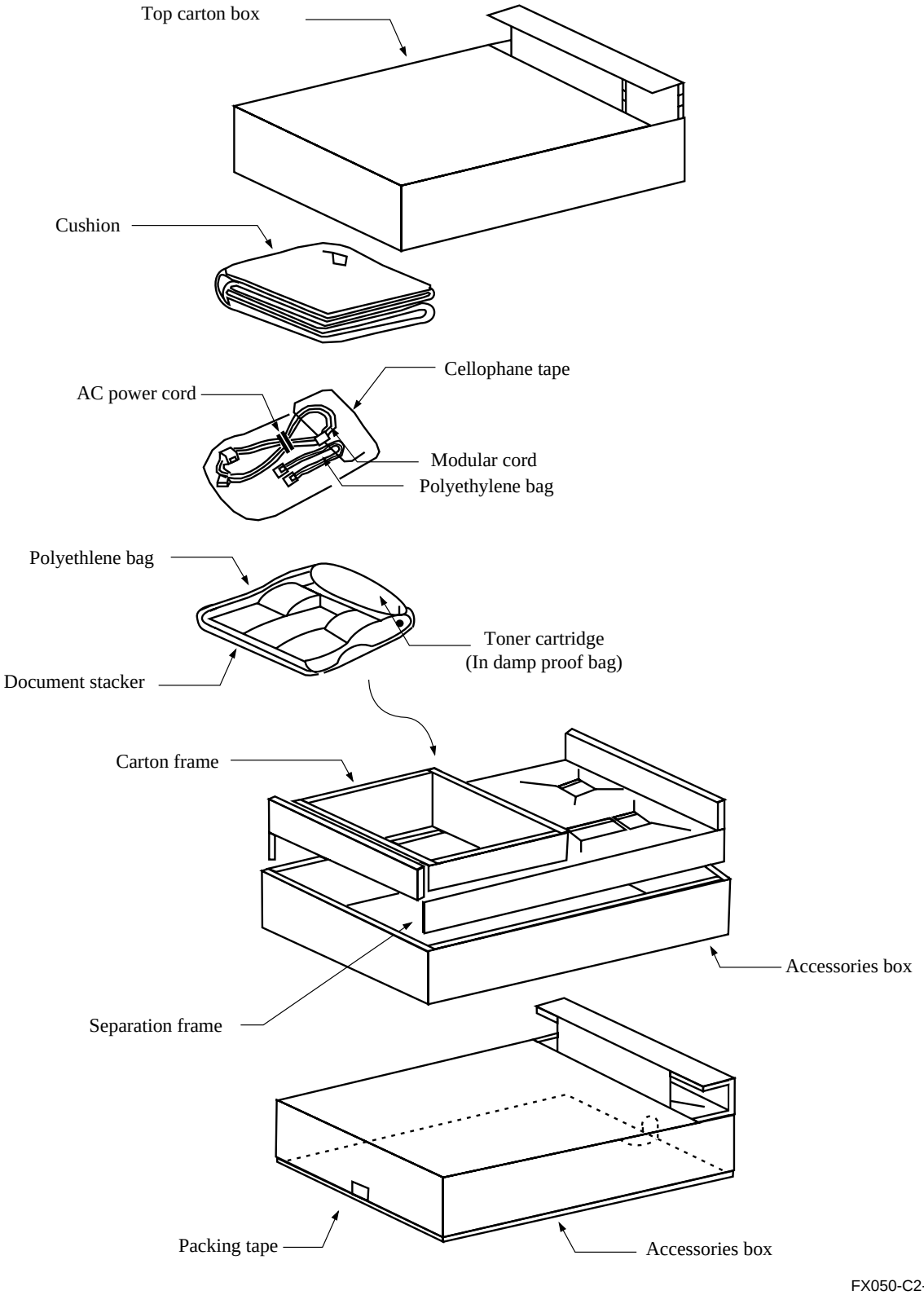

Figure 2.3.2.2 Unpacking Procedure (3)

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2.4 Check of Contents

After having taken out the machine and accompanied accessories from the carton box, check the contents according to the following list:

Table 2.4.1 Contents List for OKIOFFICE 44/OKIFAX 4100

Item No.	Name	Q'ty	Remarks
1	OKIOFFICE44/ OKIFAX4100 facsimile	1	
2	AC power cord	1	
3	I/D unit	1	Already installed.
4	Toner cartridge	1	
5	Line cord	1	
6	One touch sheet	1	Already installed.
7	User's guide	1 vol.	
8	Tray paper	1	
9	Tray document	1	

Table 2.4.2 Contents List for OKIFAX 5000 Series

Item No.	Name	Q'ty	Remarks
1	OKIFAX 5000 series facsimile	1	
2	AC power cord	1	
3	I/D unit	1	Already installed.
4	Toner cartridge	1	
5	Document stacker	1	
6	Line cord	1	
7	One touch sheet	1	Already installed.
8	User's guide	1 vol.	

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2.5 Installation of Attachments

2.5.1 Installation of Attachments for OKIOFFICE44/OKIFAX 4100

(1) Items
- Image Drum (ID) Unit (already installed)
- Toner cartridge
- Recording paper
- Tray-paper, Tray-document and Document-stacker

(2) Procedure

1) Toner cartridge
- Peel off the fixed tape attached to the cover-top.
- Open the cover-top.

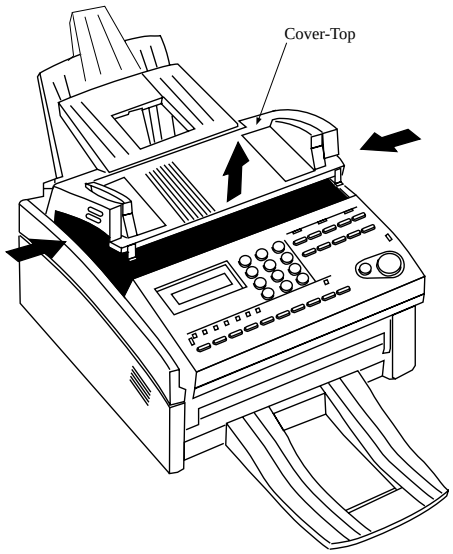

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Figure 2.5.1.1 Toner Cartridge Installation (1)

- Take the plastic cover out of the ID unit.

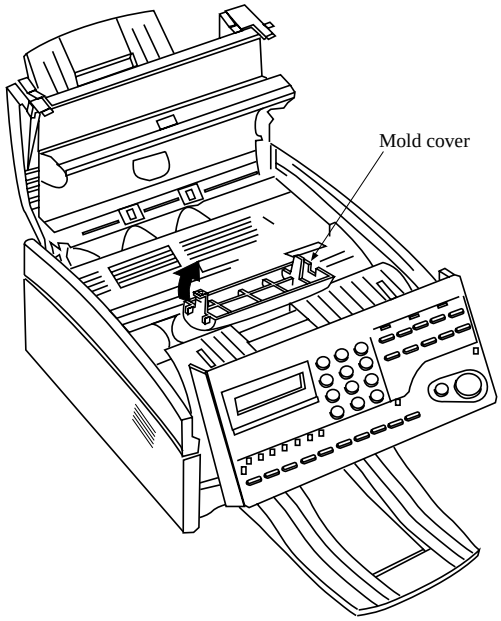

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Figure 2.5.1.2 Toner Cartridge Installation (2)

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- Take out the toner cartridge from the damp proof bag, shake it five or six times as shown in the illustration to eliminate the toner deflection, and peel off the seal gently.

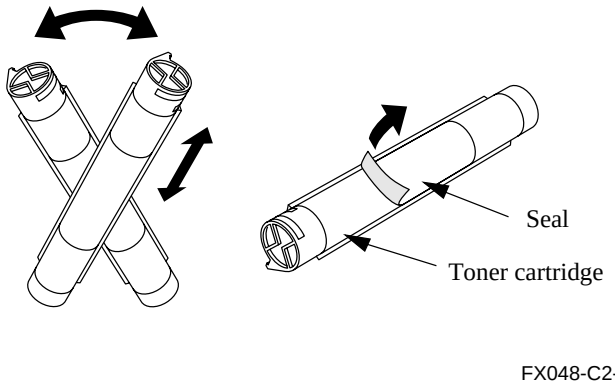

Figure 2.5.1.3 Toner Cartridge Installation (3)

- Ensure that the plastic tab on the right-hand side of the toner cartridge recess lines up with the groove on the toner cartridge.
- Press down on both ends to make sure the cartridge is fully seated.

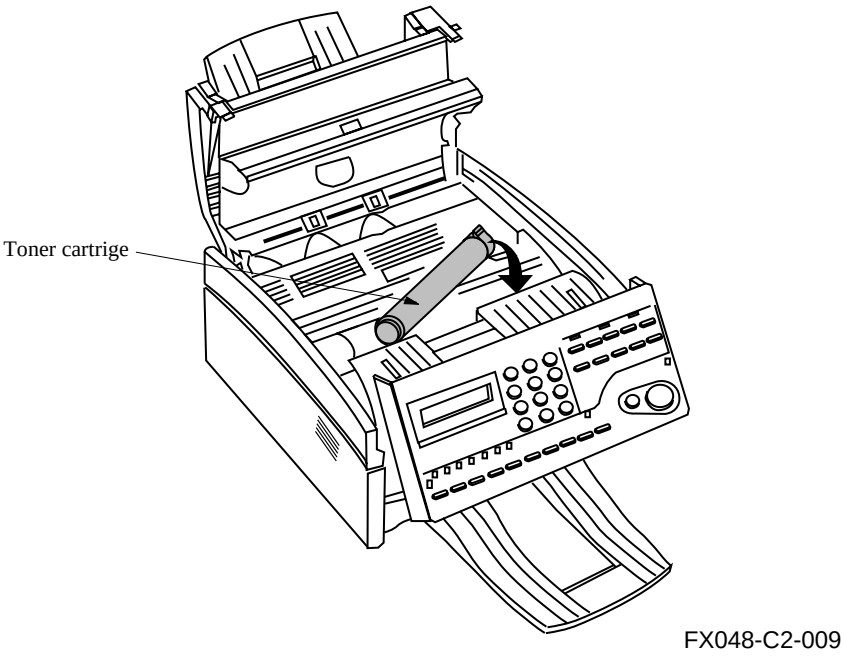

Figure 2.5.1.4 Toner Cartridge Installation (4)

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- Push the gray tab forward until it stops.

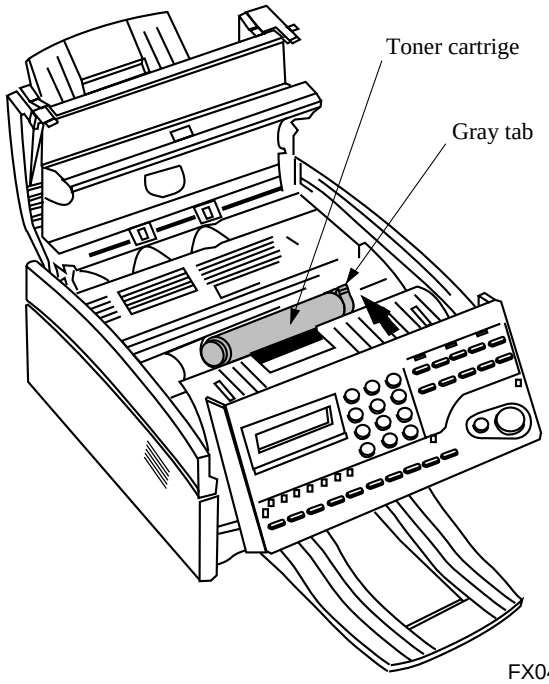

Figure 2.5.1.5 Toner Cartridge Installation (5)

- Clean the toner scattered in the vicinity of the toner cartridge using a cloth moistened with cold water. Do not use hot water since it makes the toner stick there.
- Close the cover assembly-top until the buttons have been locked completely.

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(3) Recording paper

Note: About 100 sheets of the new paper can be set on the tray-paper.

Loading the new paper.
Sheets must not exceed 100 sheets of the new paper on the tray-paper. If excessive sheets are set, it will cause paper jams.

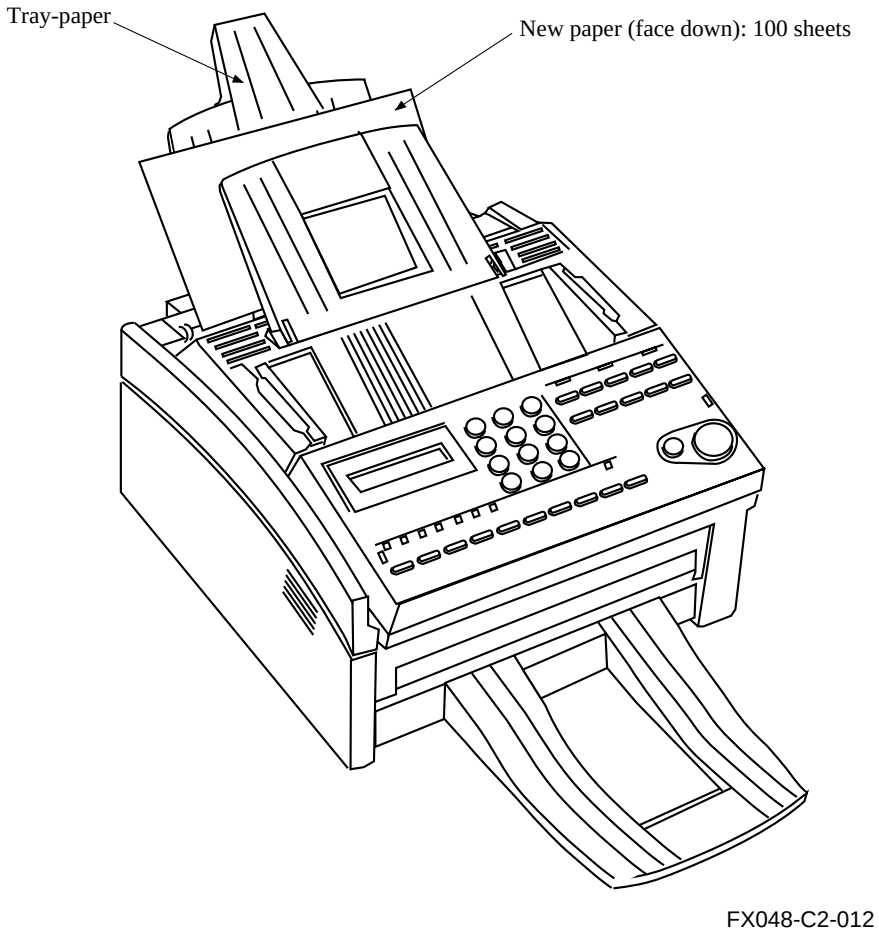

Figure 2.5.7 Recording Paper Cassette Installation (2)

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(4) Tray-paper, Tray-document and Document-stacker (option)

- Hang the tray-paper, the tray-document and the stacker-document (option) onto hanging position.

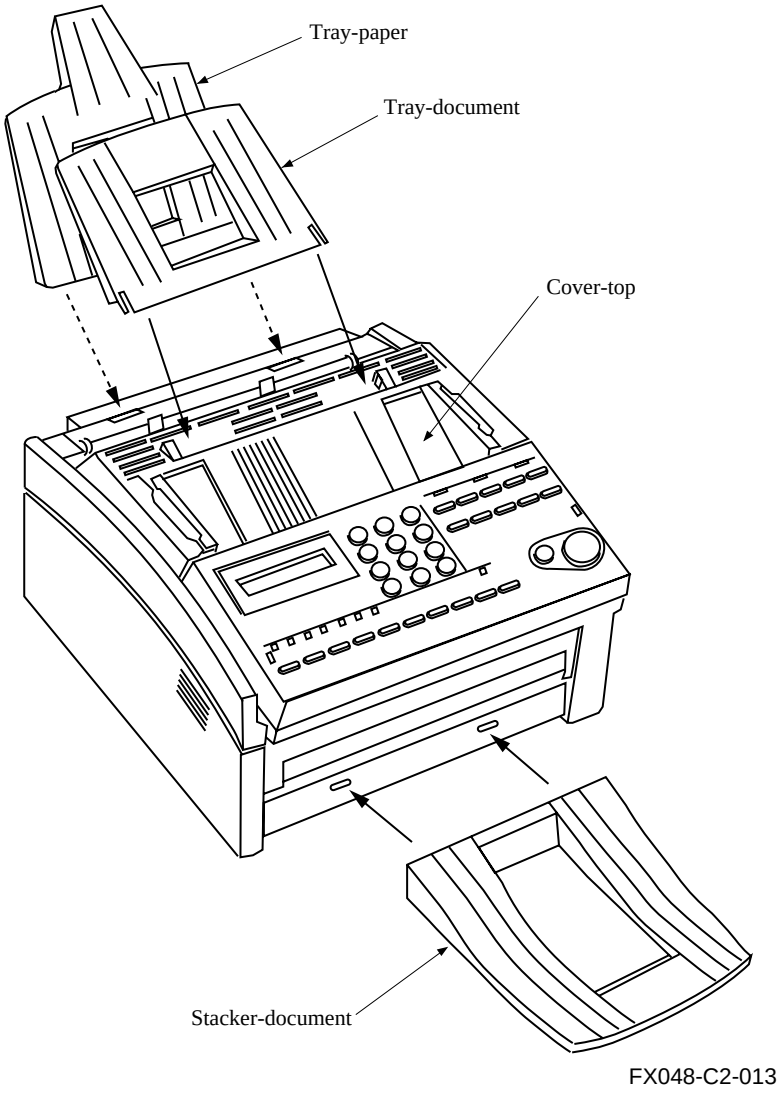

Figure 2.5.1.7 Document Stacker Installation

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2.5.2 Installation of Attachments for OKIFAX 5000 Series

(1) Items
- Image Drum (ID) Unit (already installed)
- Toner cartridge
- Recording paper
- Document stacker

(2) Procedure

1) Toner cartridge
- Peel off the fixed tape attached to the copy stacker.
- Open the document table and copy stacker.

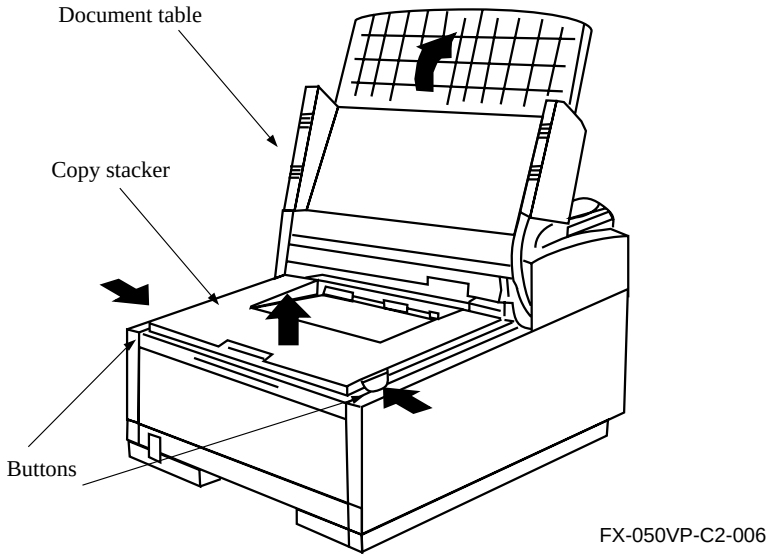

Figure 2.5.2.1 Toner Cartridge Installation (1)

- Take the cushion out of the ID unit.

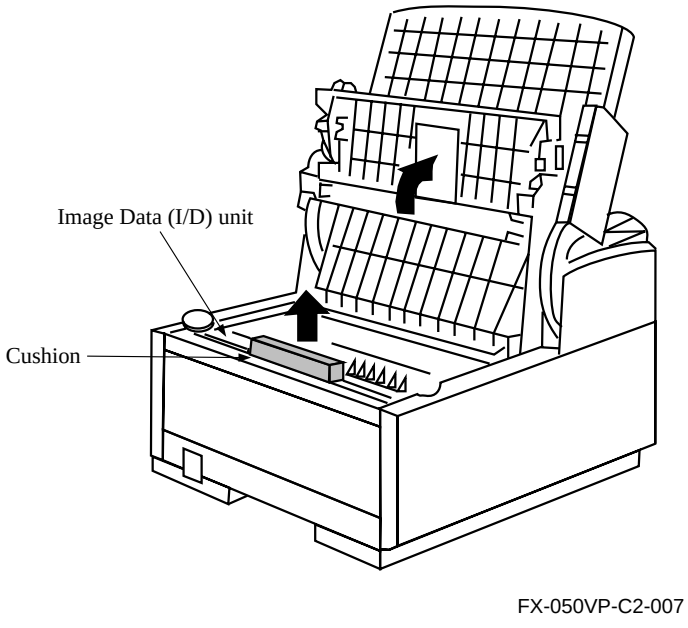

Figure 2.5.2.2 Toner Cartridge Installation (2)

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- Take out the toner cartridge from the damp proof bag, shake it five or six times as shown in the illustration to eliminate the toner deflection, and peel off the seal gently.

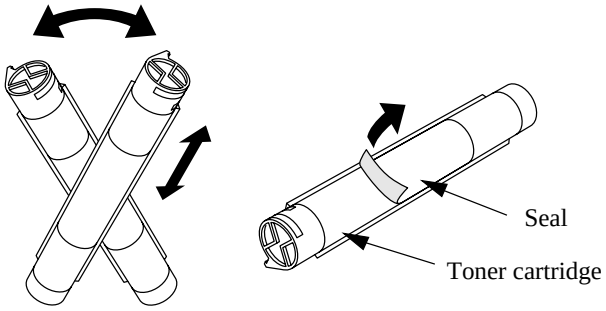

Figure 2.5.2.3 Toner Cartridge Installation (3)

- Ensure that the plastic tab on the right-hand side of the toner cartridge recess lines up with the groove on the toner cartridge.
- Press down on both ends to make sure the cartridge is fully seated.

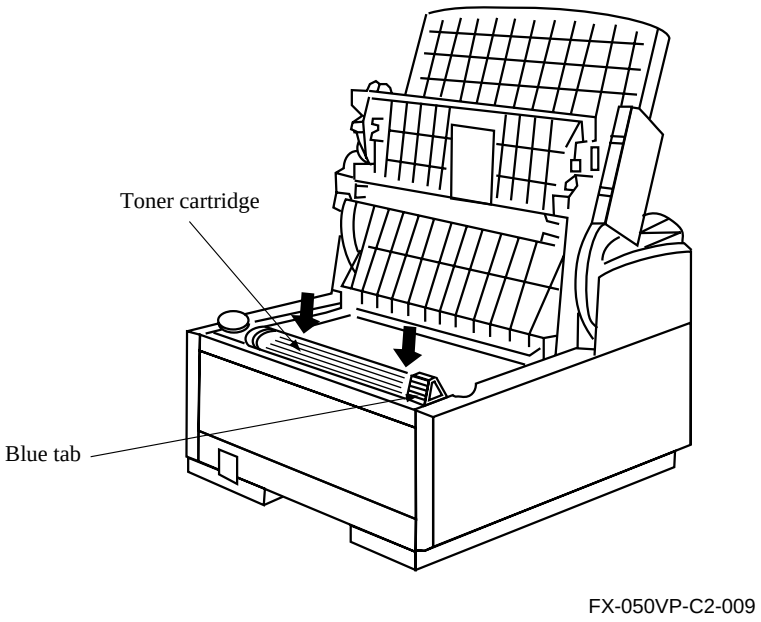

Figure 2.5.2.4 Toner Cartridge Installation (4)

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- Push the blue tab forward until it stops.

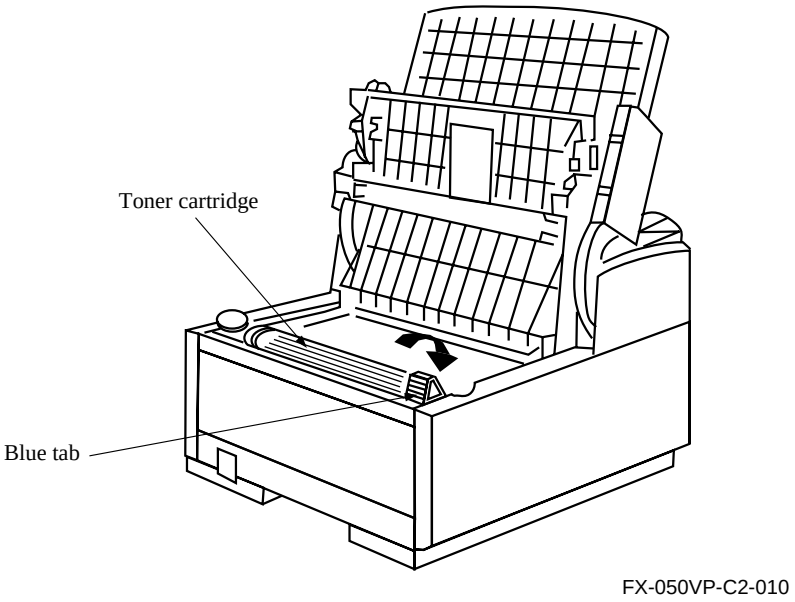

Figure 2.5.2.5 Toner Cartridge Installation (5)

- Clean the toner scattered in the vicinity of the toner cartridge using a cloth moistened with cold water. Do not use hot water since it makes the toner stick there.
- Close the copy stacker until the buttons have been locked completely.

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(3) Recording paper

Note: About 250 sheets of the new paper can be set in the recording paper cassette.

- Remove the paper cassette from the facsimile by pulling the cassette tab.

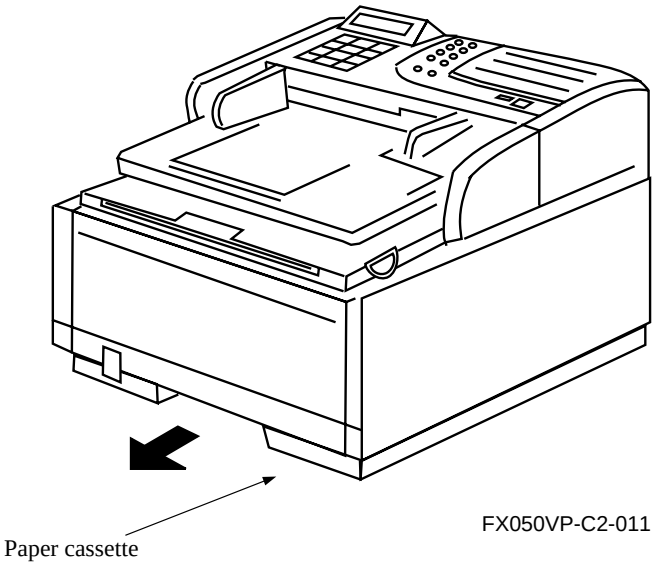

Figure 2.5.2.6 Recording Paper Cassette Installation (1)

- Sheets must not exceed the paper full marker of the new paper limit indication. If excessive sheets are set, it will cause paper jams.
- After loading the new paper, push it forward into the slot at the front of the facsimile until it locks.

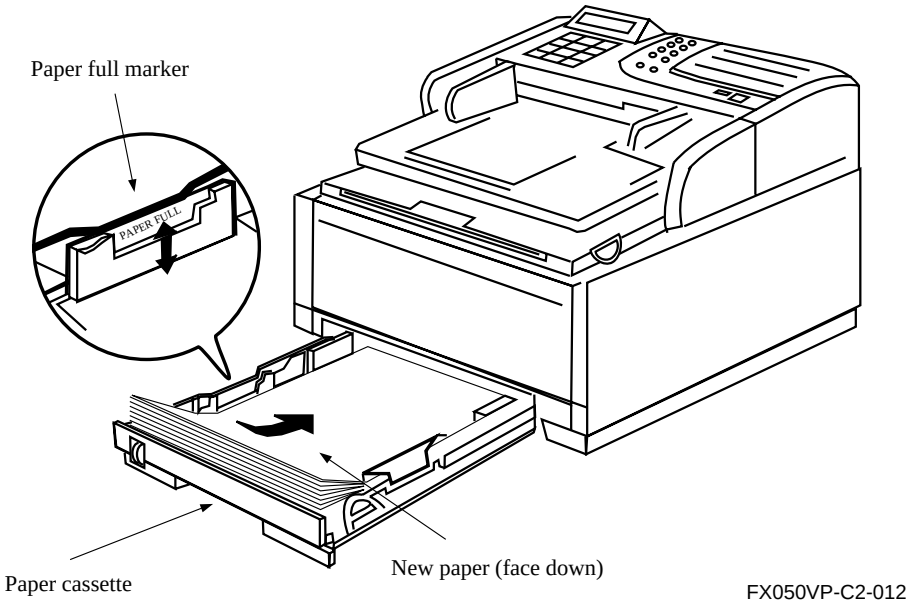

Figure 2.5.2.7 Recording Paper Cassette Installation (2)

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(4) Document stacker

- Hang the document stacker onto hanging position.

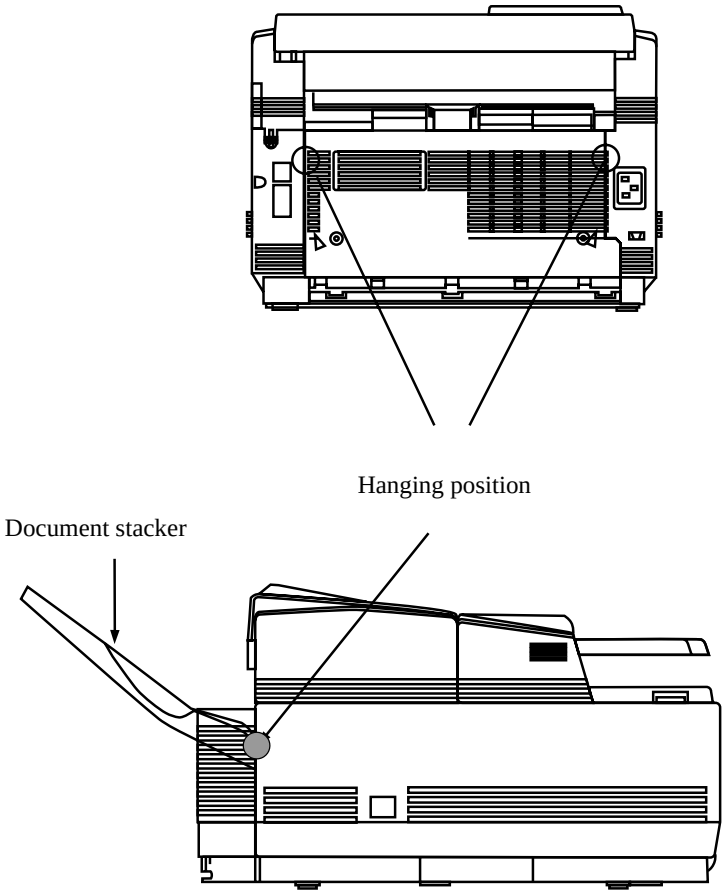

Figure 2.5.2.8 Document Stacker Installation

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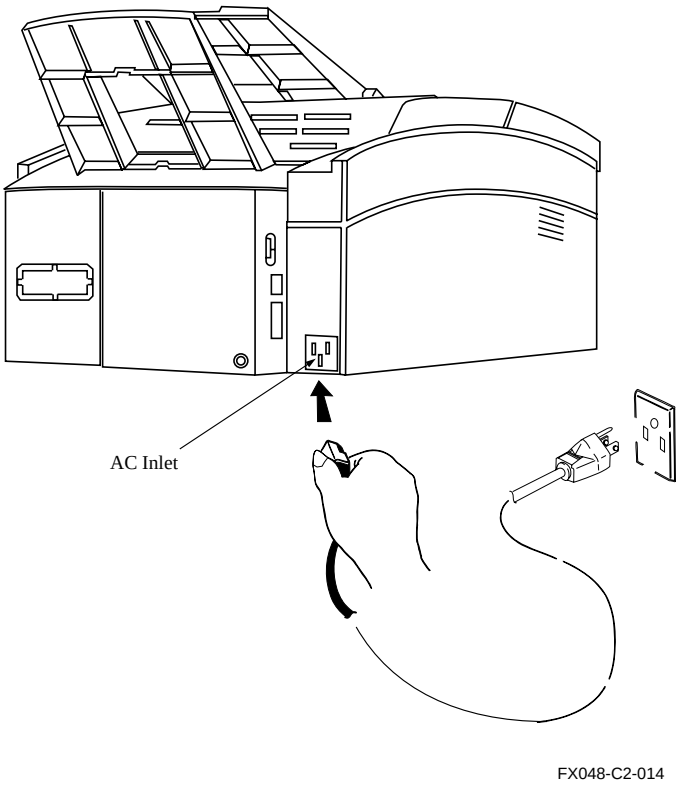
2.6 AC Cord Connection

The power supply is provided as follows.

Nominal input voltage 120VAC (Voltage range 102 to 127VAC)
Nominal input voltage 230VAC (Voltage range 198 to 250VAC)

Check whether the AC voltage of your input is within the above-mentioned voltage range and if so, check that the power switch is turned OFF. After turning off the power switch, connect the female plug of the AC cord to the machine and insert the male plug of the AC cord to the inlet receptacle.
Turn the power switch ON and check that the display shows “(Time)” message indicating the standby mode.

1) For OKIOFFICE44/OKIFAX 4100



Note: OKIOFFICE44/OKIFAX 4100 is not equipped a AC power switch.

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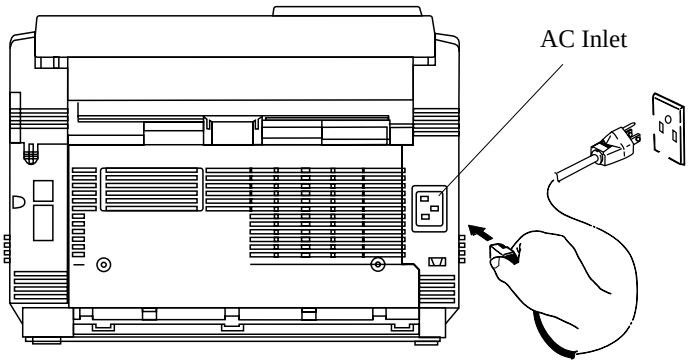
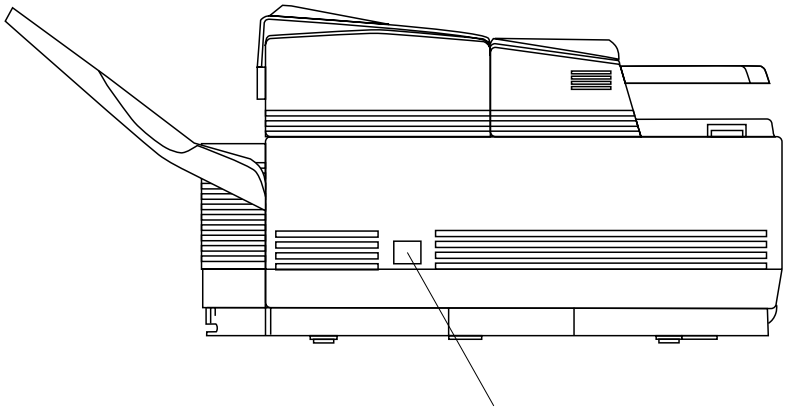
2) For OKIFAX 5000 series





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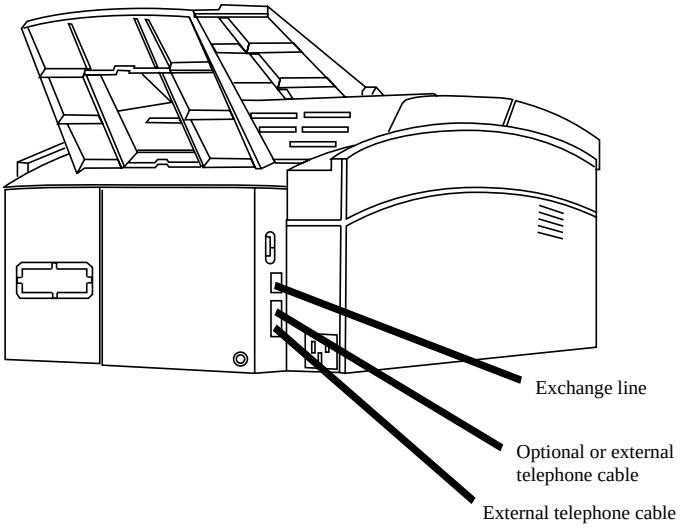
2.7 Telephone and Line Connections

(1) Procedure

- Connect the lines.

1) For OKIOFFICE44/OKIFAX 4100



2) For OKIFAX 5000 series

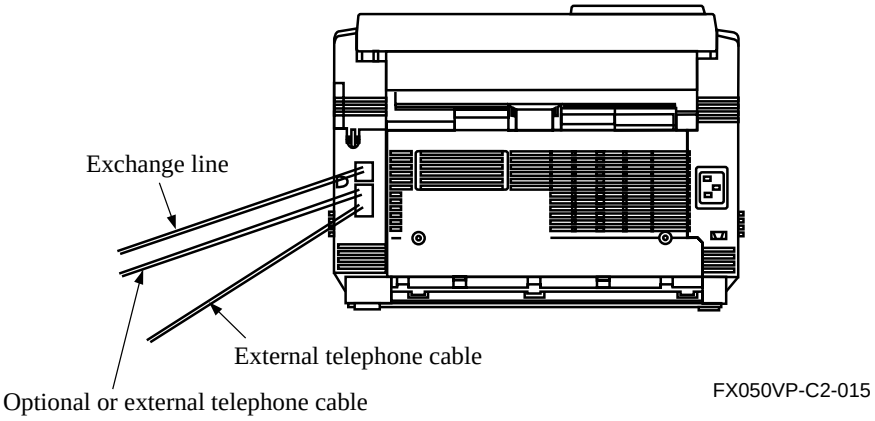


Figure 2.7.1 Telephone and Line Connections

2.8 Packing for Shipment

CAUTION: When packing the OKIOFFICE44, OKIFAX 4100/5000 series for shipment, REMOVE THE IMAGE DRUM AND TONER FROM THE UNIT AND SHIP SEPARATELY! Failure to do this will result in damage to the machine."

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B. Programming and Initial Settings

2.9 Initial Settings

2.9.1 General Procedure of Key Operation

Figure 2.9.1 shows the general procedure of key operation.

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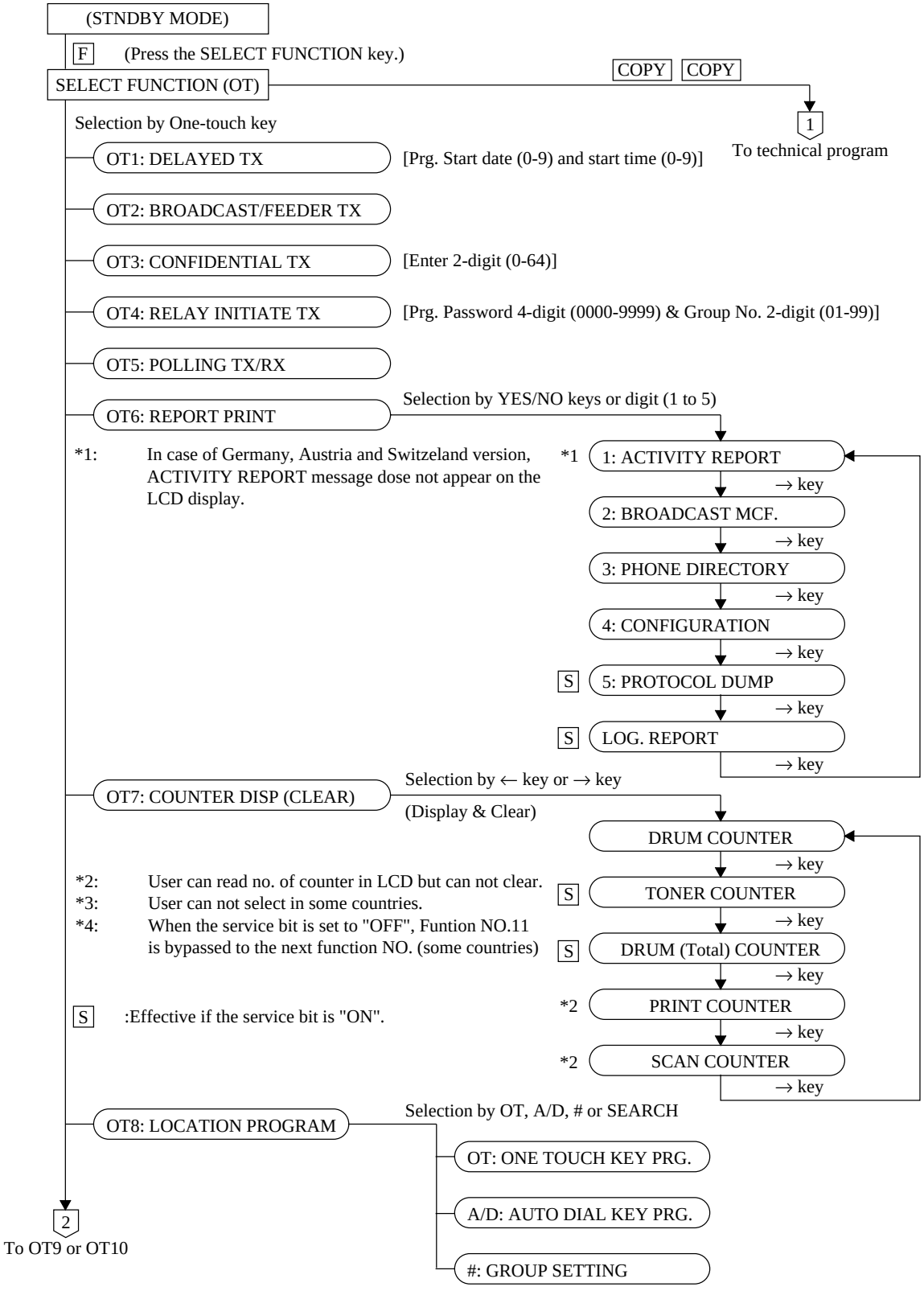

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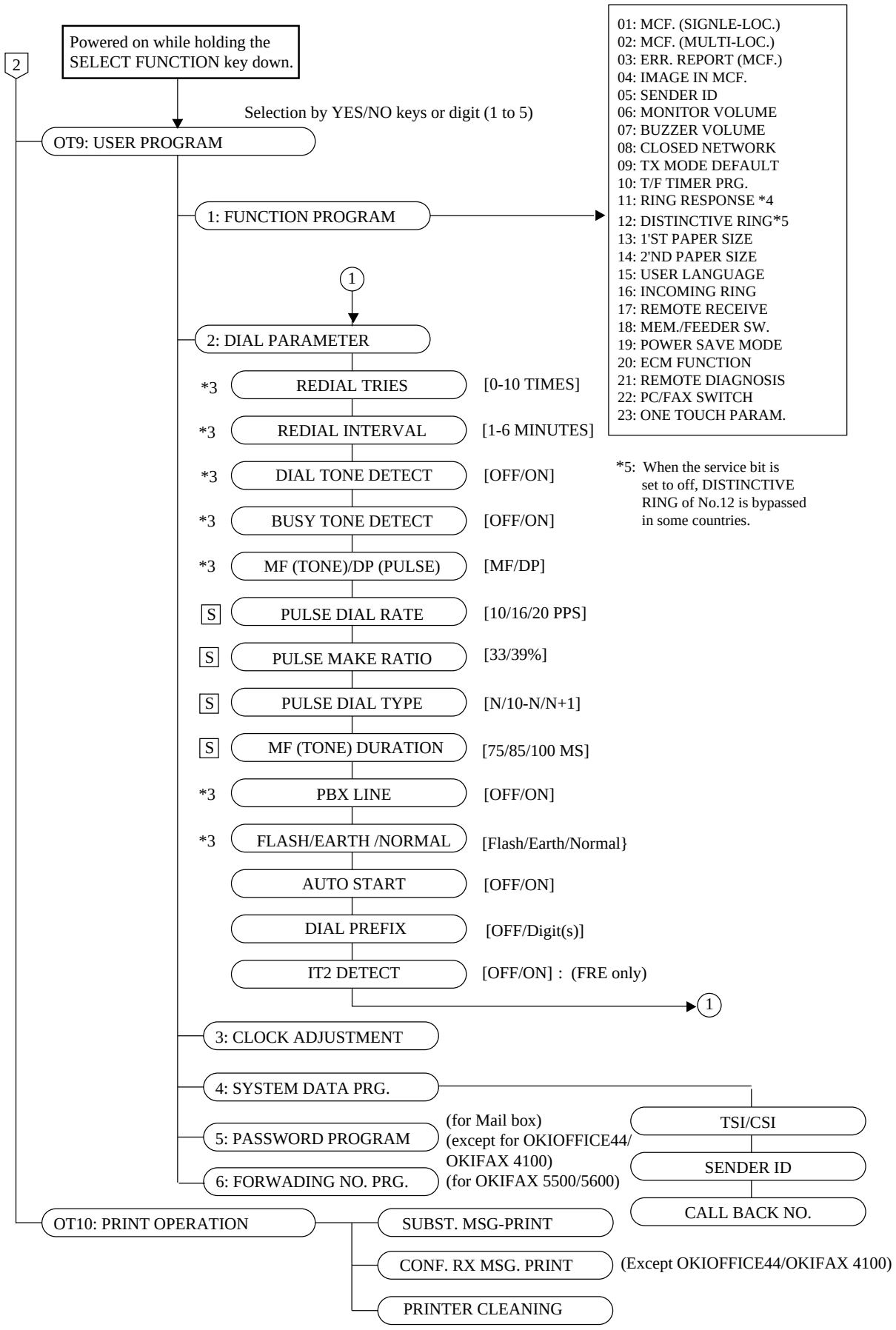

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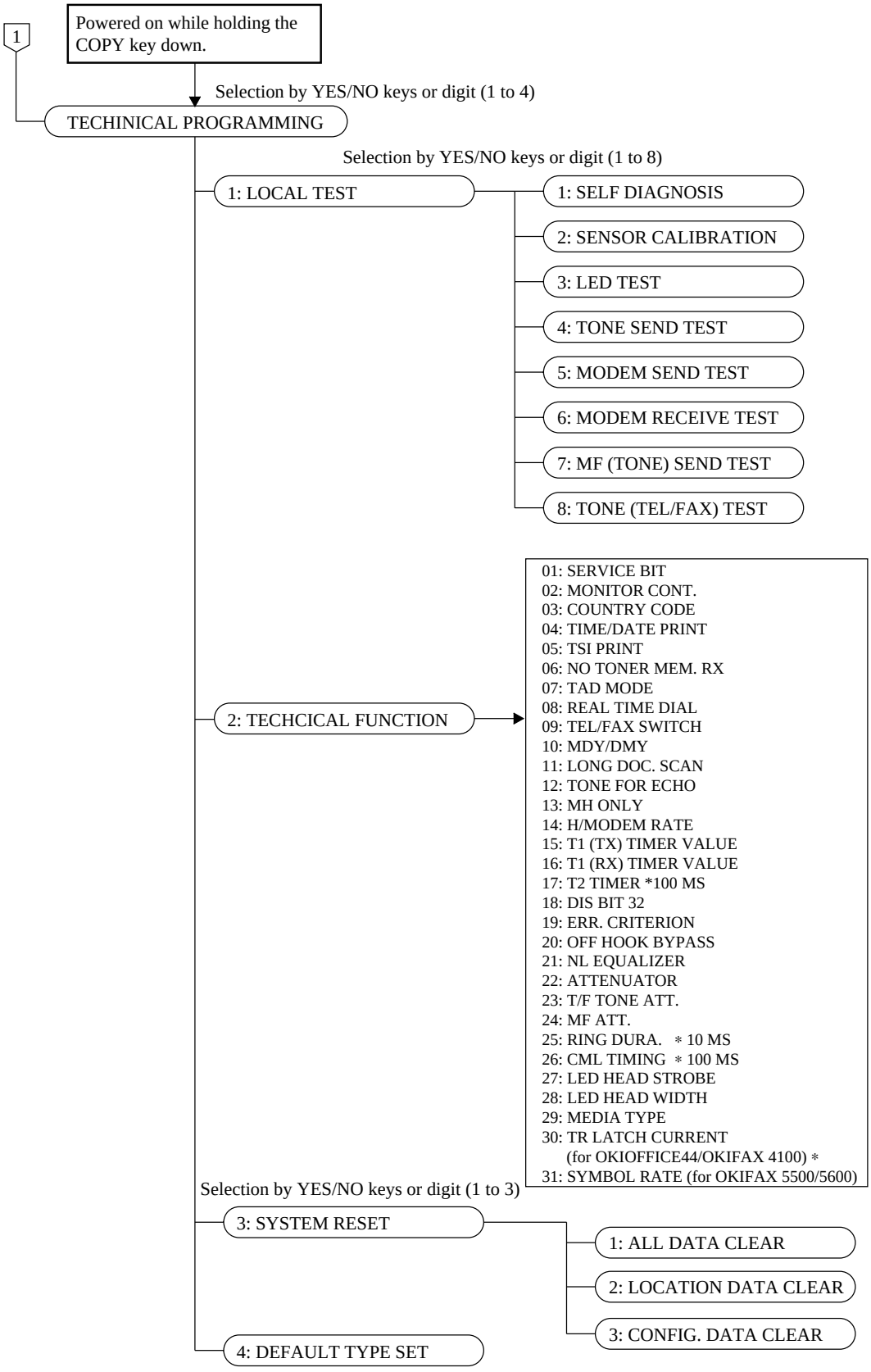
1
Powered on while holding the COPY key down.
Selection by YES/NO keys or digit (1 to 4)
TECHINICAL PROGRAMMING
Selection by YES/NO keys or digit (1 to 8)
1: LOCAL TEST
1: SELF DIAGNOSIS
2: SENSOR CALIBRATION
3: LED TEST
4: TONE SEND TEST
5: MODEM SEND TEST
6: MODEM RECEIVE TEST
7: MF (TONE) SEND TEST
8: TONE (TEL/FAX) TEST
2: TECHCICAL FUNCTION
01: SERVICE BIT
02: MONITOR CONT.
03: COUNTRY CODE
04: TIME/DATE PRINT
05: TSI PRINT
06: NO TONER MEM. RX
07: TAD MODE
08: REAL TIME DIAL
09: TEL/FAX SWITCH
10: MDY/DMY
11: LONG DOC. SCAN
12: TONE FOR ECHO
13: MH ONLY
14: H/MODEM RATE
15: T1 (TX) TIMER VALUE
16: T1 (RX) TIMER VALUE
17: T2 TIMER *100 MS
18: DIS BIT 32
19: ERR. CRITERION
20: OFF HOOK BYPASS
21: NL EQUALIZER
22: ATTENUATOR
23: T/F TONE ATT.
24: MF ATT.
25: RING DURA. * 10 MS
26: CML TIMING * 100 MS
27: LED HEAD STROBE
28: LED HEAD WIDTH
29: MEDIA TYPE
30: TR LATCH CURRENT
(for OKIOFFICE44/OKIFAX 4100) *
31: SYMBOL RATE (for OKIFAX 5500/5600)
Selection by YES/NO keys or digit (1 to 3)
3: SYSTEM RESET
1: ALL DATA CLEAR
2: LOCATION DATA CLEAR
3: CONFIG. DATA CLEAR
4: DEFAULT TYPE SET

* Space for OKIFAX 5500/5600
Function 30 is used as “V.34 Learning Parameter for OKIFAX 5500/5600

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2.9.2 Technical Functions

This section explains setting items generally conducted by service personnel, not by users.

Table 2.9.1 shows the initial setting items and their purposes. (The default setting is different by the individual countries.)
Each item can be accessed by entering the corresponding service number on Technical Function.

The detailed procedures of the initial setting items will be explained on the following pages.

Note 1: S-ON: Effective if the service bit has been set to ON.
FP: Function program setting
TF: Technical function setting

Note 2: The fonts displayed on the LCD operation panel may differ from fonts written this manual.

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Table 2.9.1 (1/6) Service Personnel Initial Settings

T.F. No.	Item	Specifications	Default
01 Rev.3	Service bit	Switching serviceman/user operation. ON : Service personnel's features are available. OFF : Service personnel's features are not available. To enable or disable the following functions: • Drum (Total, Print, Scan), and toner counter clear • Protocol dump • Dial parameters • etc	
02	Line monitor control	Changing the audible monitoring range. FP +06 (To select the loudness of monitoring) ON : Enable OFF : Disable ***Note:*** In case of transmission mode, the monitor will be available during dialling, but the monitor will be switched off automatically after the elapse of specified time (about 5 sec.). However, when TF02 is set to ON, the monitor is available during communication also.	
03 Rev.2	Country code	Selecting the following country code: USA, INT'L, GBR, IRL, NOR, SWE, FIN, DEN, GER, HUN, TCH, POL, SUI, AUT, BEL, HOL, FRE, ESP, ITA, GRE, AUS, NZL, SIN, HNG	
04	Time and date print	Enables or disables the function of printing local date and time at the top of the received page. OFF/ ONCE/ALL selectable. ***Note:*** • Set at receiver.	
05	TSI print	Switches the function of printing TSI data from remote fax onto the received pages. TSI is printed at the leading edge of first reproduced copy. (Set at receiver.) When TF04 is set to "ALL", TSI is printed for the all received pages. ON : Enable OFF : Disable (Reference) TSI; Transmitting Subscriber Identification	

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Table 2.9.1 (2/6) Service Personnel Initial Settings

T.F. No.	Item	Specifications	Default
06	No-toner memory reception	Enables or disables the memory reception when the fax is in no toner condition. ON : The messages are printed when toner has been newly supplied or an operator performs the memory operation (OT10). OFF : The messages are printed in the print mode. But print quality is not guaranteed.	
07	TAD mode (For external telephone answering device.)	Switches an automatic voice message response to the calling station. TAD mode is of two types (TYPE1/TYPE2). OFF/TYPE1/TYPE2 selectable. TYPE1 means: 1. RING comes. 2. The TAD answers, returns the recorded voice message in TAD to calling party. 3. The FAX machine will continue to detect CNG signal while TAD works. 4. If the FAX machine detects CNG signal, the fax will go into normal receiving mode. 5. Even though the fax does not detect CNG signal, the fax will go to receiving mode in hook-on condition. TYPE2 means: The function from No. 1 to No. 4 of upper TYPE2 are the same as TYPE1. 5. If the fax does not detect CNG signal during working of TAD, the machine will go to standby mode.	
08	Real time dialing	Enables or disables the real time dialling. 3 types selectable. (OFF/TYPE1/TYPE2) TYPE1: Real-time dialling is available when the optional telephone handset is OFF-HOOK. TYPE2: Real-time dialling is available when the optional telephone handset is OFF-HOOK or HOOK key is pressed.	
09	TEL/FAX switching	Enables or disables the TEl/FAX automatic switching. ON : Enable OFF : Disable (Related item: FP10, TF23)	

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Table 2.9.1 (3/6) Service Personnel Initial Settings

<table>
<tr><th>T.F. No.</th><th>Item</th><th>Specifications</th><th>Default</th></tr>
<tr><td>10</td><td>MDY/DMY</td><td>Switches LCD display and report print from month/day/year to day/month/year or vice versa.
MDY/DMY selectable.</td><td></td></tr>
<tr><td>11</td><td>Long document SCAN</td><td>Switches the function of transmitting long-size document (more than 380 mm).

ON : Unlimited
OFF : 380 mm.</td><td></td></tr>
<tr><td>12</td><td>Tone for Echo</td><td>Switches the function to apply to poor lines with echo in overseas transmission, etc.

ON: Enables
OFF: Disables

<table><tr><td>Echo Protection</td><td>OFF</td><td>ON</td></tr><tr><td>Ignore 1st DIS</td><td>OFF</td><td>ON</td></tr><tr><td>CED-DIS timer</td><td>75 ms</td><td>1.5 sec</td></tr><tr><td>Tone for echo</td><td>OFF</td><td>ON</td></tr></table>
(TF-12 table)</td><td></td></tr>
<tr><td>13</td><td>MH only</td><td>Switches the function of limiting image compression only to the MH codes.

ON : Coding scheme is MH only. When the receiving image data is affected by noise on the telephone line.
OFF : Any of MH, MR and MMR.</td><td></td></tr>
<tr><td>14
Rev.2</td><td>High-speed modem rate</td><td>Specifies the modem’s starting speed, 33.6K, 28.8K, 14.4k, 9.6k, or 4.8kbps.

Note: The following protocol is added to OKIFAX 5500/5600:
ITU-T standard V.34 for 33.6K or 28.8 kbps operation.</td><td></td></tr>
<tr><td>15</td><td>T1 (TX), timeout value</td><td>Registers the time duration (in seconds) for which the fax waits for the remote station’s answer.
This timer starts when the last dialled digit has been sent in the automatic transmission mode.

* Selects the 3 digit timer
010 to 255 sec selectable.(in one second steps)</td><td></td></tr>
</table>

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Table 2.9.1 (4/6) Service Personnel Initial Settings

T.F. No.	Item	Specifications	Default
16	T1 (RX), timeout value	T1 (RX), timeout value (later) Registers the time duration (in seconds) for which the fax waits for the remote station's answer of individual country's specification. This timer starts after the DIS is transmitted, and checked this timer by the transmission timing signal. If T1 times out, the fax disconnects the line. * Selects the 3 digit timer 010 to 255 sec selectable. (in one second steps)	
17	T2, timeout value	T2, timeout value (layer) Registers the time duration (in seconds) for which the fax detects the EOL interval during reception of phase C. The fax disconnects the line when EOL can not detect within T2 timer. * Selects the 3 digit timer 001 to 255 selectable. (in 100ms steps) For example: 060 x 100 ms =6 s	
18	DIS bit32	Specifies whether to transmit a bit 32 in DIS. ON : Transmits a bit 32 OFF: Disable ***Note:*** When occurring a communication error at receive by the old fax machine.	
19	Error criterion	Registers the threshould value whether to transmit RTN or MCF signal when the error occurs in received data. 00% to 99% selectable. (in one percent steps)	
20	Off-hook bypass	Switches the function of maintaining communication without hooking up the telephone set in normal testing etc. ON : Enable OFF: Disable	
21	NL equalizer	Selects equalization for the following cable lengths: 0 km/1.8 km/3.6 km/ 7.2 km selectable. ***Note:*** Relative to 1700Hz for length of 0.4mm diameter cable.	
22	Modem attenuator	Adjusts the attenuation (dB) for the message send signal power level. Adjusting value is 0 to 15 dB in one dB steps. Since the maximum send signal power level (dB) of the fax is at 0 dB, you can select 0 dB to -15 dB in one dB steps for the send signal power level. 0 to 15 dB. selectable	

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Table 2.9.1 (5/6) Service Personnel Initial Settings

T.F. No.	Item	Specifications	Default
		Note: The send signal power level should meet your country's regulation. Some countries may specify the power level at a telephone exchange. In that case, you should substract the specified level from the line cable attenuation to determine the send level of your fax.	
23	T/F tone attenuator (for TEL/FAX SW)	Adjusts the attenuation (dB) for the quasi-ring back tone send signal of TEL/FAX switching. Adjusting value is 0 to 15 dB in one dB steps.	
24	MF attenuator	Adjusts the attenuation (dB) for the send MF tone power level. Adjusting value is 0 to 15 dB in one dB steps.	
25	Ring duration detection time	Selects the minimum ring detection time to meet country's requirements. Adjusting time is 100 MS to 990 MS in 10 MS steps. 10 to 99 selectable. For example: (120 ms) 12 x 10 ms = 120 ms	
26	CML timing	Selects the time from end of ring to CML-ON. Adjusting time is 100 MS to 1900 MS in 100 MS steps. 0 to 19 selectable. For example: (300 ms) 03 x 100 ms = 300 ms	
27	Strobe for LED head	Setting of LED print head strobe signals (00000-11111). Selection of strove width in LED head. "00000" is darkest and "11111" is lightest. ***Note 1:*** When the rank marking of the new replaced LED print head (new part) is same as that of the old used LED print head (old part), you do not always have to set the LED print head strobe signal. ***Note 2:*** Intensity ranking is determined by the first, second and third digits from the right on the LED print head serial number. (i.e. in .... 212, 212 is the intensity ranking.)	

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Table 2.9.1 (6/6) Service Personnel Initial Settings

T.F. No.	Item	Specifications	Default

Rev.3

Setting of Technical Function No. 27

Setting / Rank Marking	MSB ↑ LSB																														
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1
		0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1
		0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0
		0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
291–313										*																					
269–290											*																				
248–268												*																			
229–247													*																		
212–228														*																	
196–211															*																
181–195																*															
168–180																	*														
155–167																		*													
143–154																			*												
132–142																				*											
122–131																					*										
113–121																						*									
105–112																							*								
100–104																								*							

28 Rev.3	Head width	Head width (later) You should confirm the head width by the following table, and then select it by this setting. (Refer to 4.2.1) Head width is two types (TYPE1/TYPE2).	
29	Media type	Selects the recording paper according to its quality. Medium, Medium-heavy and Heavy selectable.	
30 Rev.3	Transfer roller latch current	Selects the latch current for transfer roller. (–1/0/+1/+2) only for OKIOFFICE44/OKIFAX 4100.	
31 Rev.2	Symbol rate	Symbol rate (later) Selects the V.34 modem symbol rate for OKIFAX 5500/5600. 2400, 2800, 3200, 3429 selectable.	

Setting	Head width	Head label
TYPE 1	2496 dots	1228G1
TYPE 2	2560 dots	1104G2

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1) TEL/FAX automatic switching

This function is used for the purpose of TEL/FAX automatic switching as follows.

(1) If the machine detects a call with a CNG signal indicating an auto send facsimile call, it starts an automatic document receiving operation.

(2) If machine detects a call without a CNG signal, machine generates the buzzer sounds as a telephone call. The calling person can hear a “ring back” tone within a predetermined time.

If the operator at the called side does not lift the handset within the predetermined time, the machine automatically starts a document receiving operation.
Voice conversation will automatically be available through the internal handset by lifting up the handset while the call buzzer is sounding.

Note: 1: The predetermined time is selectable between 20 or 35 sec.
(Function program No. 10)

2: No ringing signal is sent to the external telephone handset.

3: Choice of message sending level. The level is selectable from 0 to 15 dB in one dB step.
(Technical function No. 23)

4: TEL/FAX mode is available by Technical Function No.9.

2) TAD mode

TAD: Telephone Answering Device

TAD can be connected to external telephone terminal to record your messages.

TAD records your speech and switches an automatic voice message response to the calling station.

***Note 1*:** A choice of TAD mode is available by Technical Function No. 12.

Note 2: The predetermined time is selectable between 20 or 35 sec.

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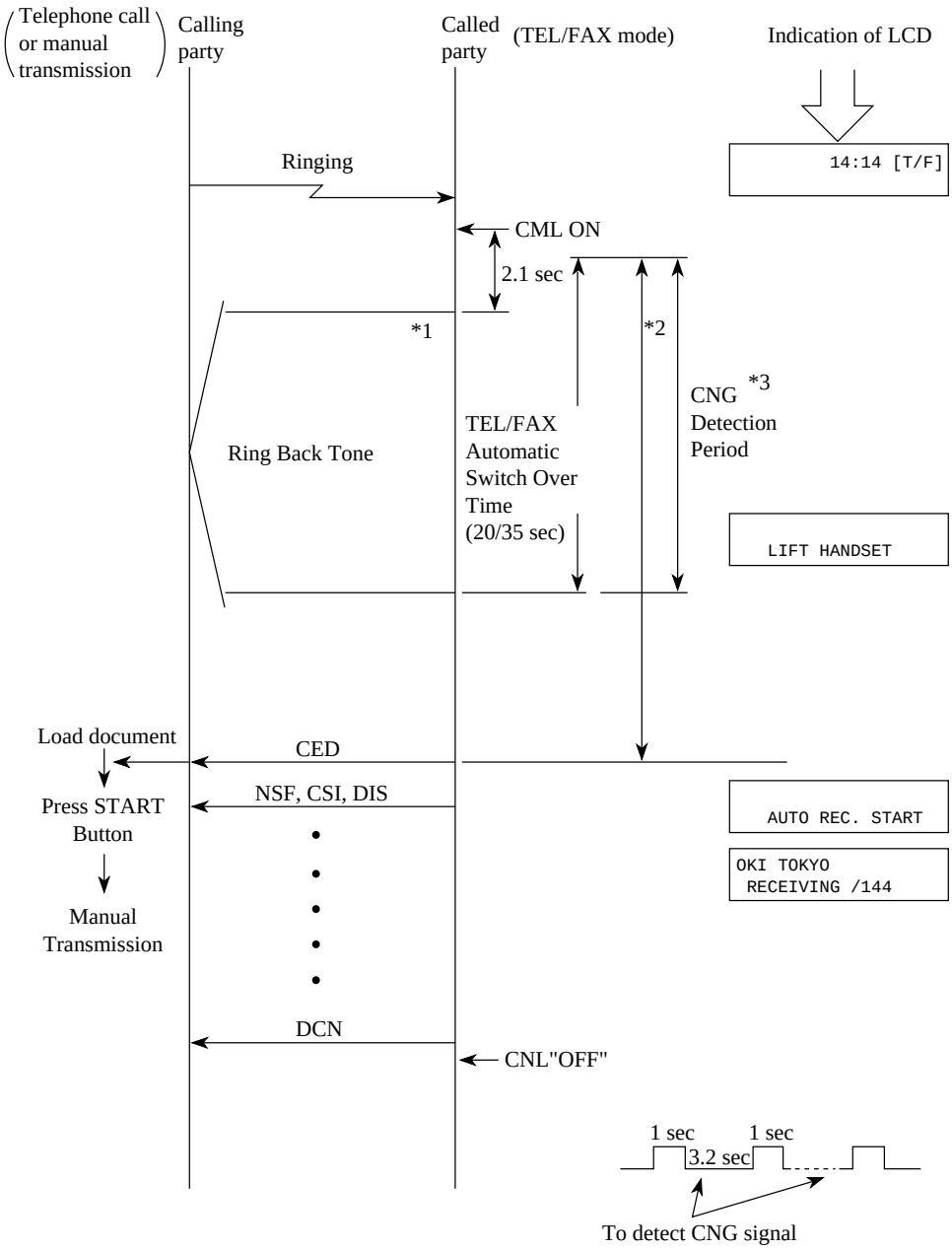
- TEL/FAX mode flow chart



FX050VP-C2-018

[Notes]

*1: Ring Back Tone — 1 sec. ON, 3.2 sec. OFF

*2: When you want to talk by phone, pick up handset.

*3: The called party can send CED to the calling party immediately to start FAX communication if the CNG is detected during the period.

*4: If the fax does not detect CNG signal during working of TEL/FAX mode, LCD display indicates “LIFT HANDSET”.

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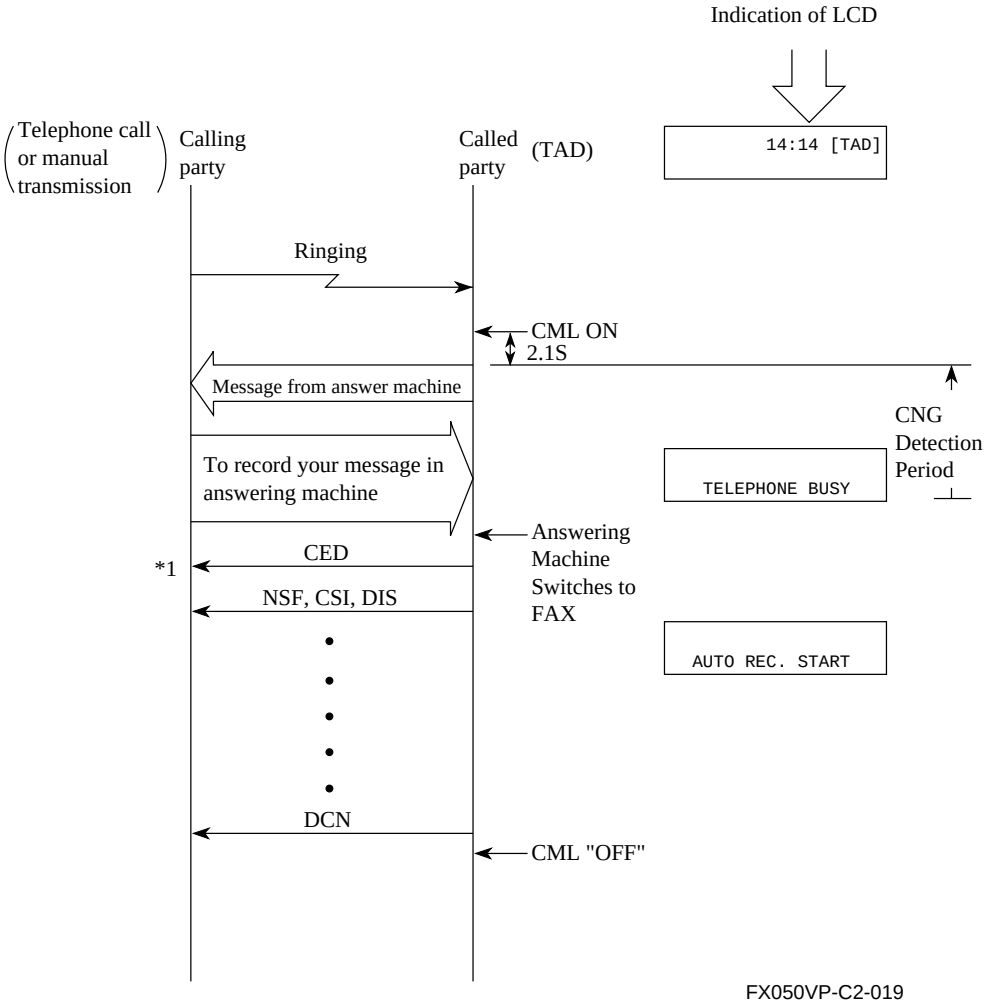
- TAD mode flow chart

  In case of TYPE 1;

  Even though the fax does not detect CNG signal, the fax will go to receiving mode.



*1 To enable the manual TX mode.
Load document → Press START button → Manual transmission

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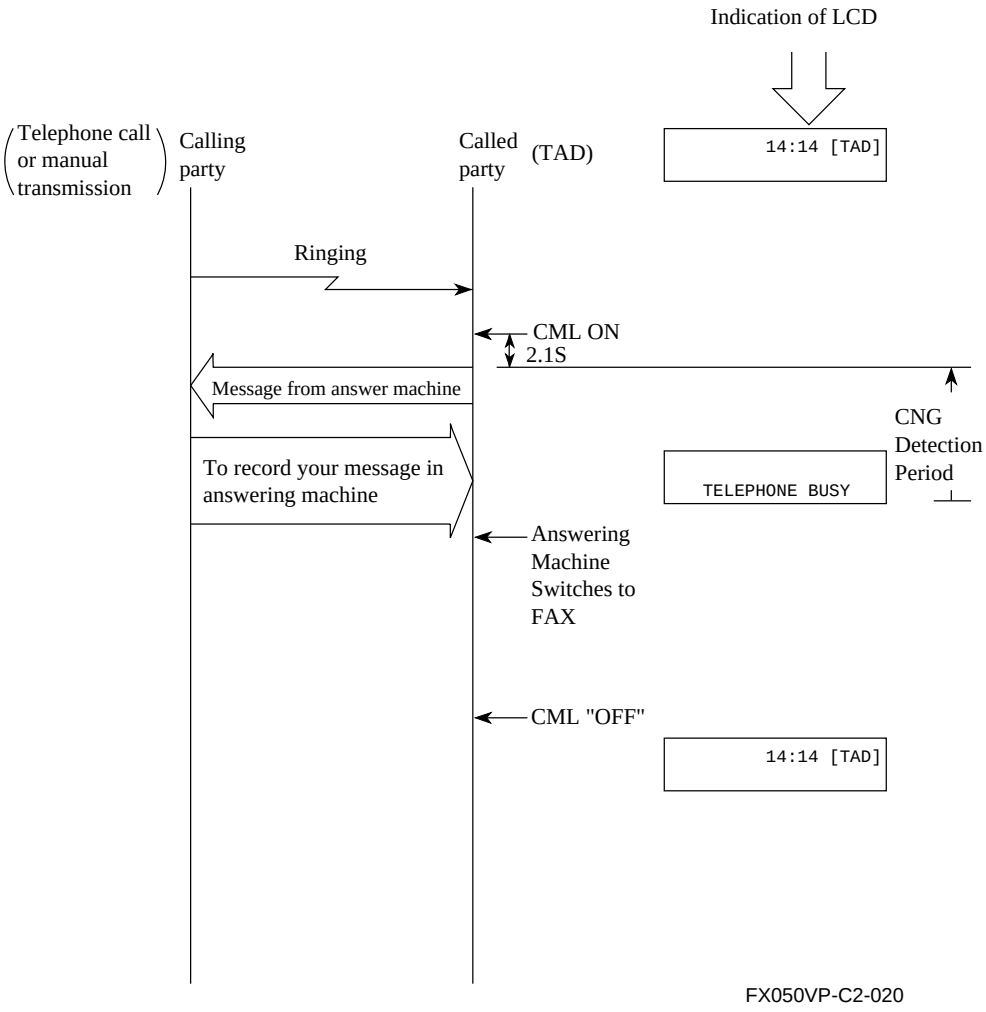
- TAD mode flow chart

  In case of TYPE 2:

  If the fax does not detect CNG signal during working of TAD, the machine will go to standby mode.



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2.9.3 Technical Functions Example

Note: The fonts displayed on the LCD operation panel may differ from the fonts written this manual.

(1) Service Bit Setting

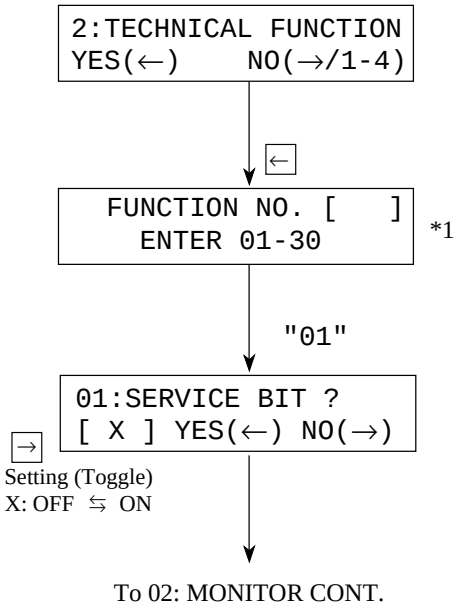
1) Purpose
To enable or disable the following functions:
- Drum and toner counter display (clear)
- Service default report printing
- Protocol dump report printing
- Ring response time setting
- Dial parameters setting
- Printer counters clearing

2) Procedure

Operations:

- To bring the LCD up to the desired message press SELECT FUNCTION key once, COPY key twice and "2"key. (In case of no message in memory)
- Press [←] key.
- Service bit setting is T.F. No. 01. Enter "01"

The display shows:



*1: 01-29 for OKIOFFICE44, OKIFAX 4100/5200/5300
01-30 for OKIFAX 5500/5600

Reference: See Figure 2.9.1 on the next page for the general operation flow.

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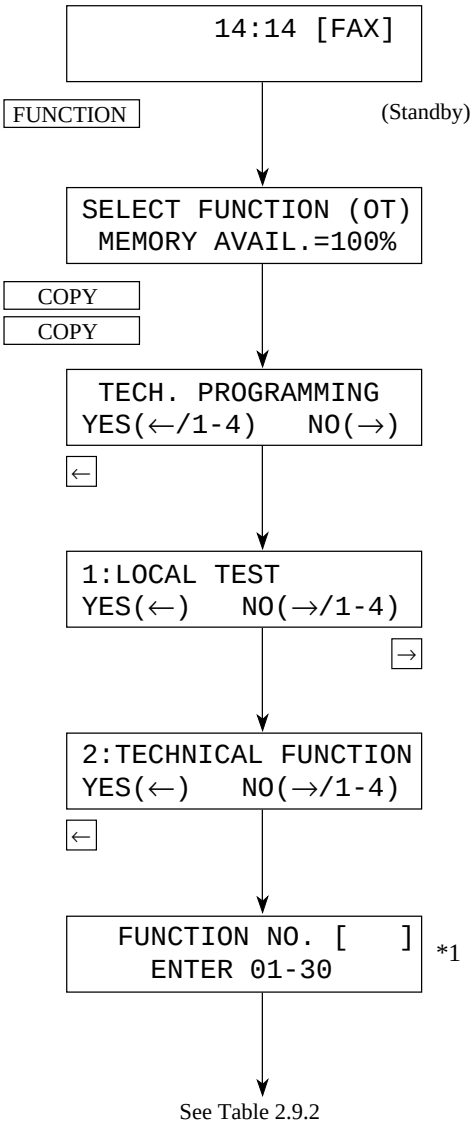
(2) Technical functions

Operations:

- Press SELECT FUNCTION key.
- Press COPY key twice.
- Press ← key.
- Press → key.
- Press ← key.
- Enter two-digit function number, then the display will show the set item corresponding to the number entered. If you want to set up all or several items starting with 01, then enter 01.

The display shows:



*1: 01-30 for OKIOFFICE44, OKIFAX 4100
01-29 for OKIFAX 5200/5300
01-31 for OKIFAX 5500/5600

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Table 2.9.2 (1/5) Technial Functions

T.F. No.	Name of Function	The Display Shows
01	Service bit	01:SERVICE BIT [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON
02	Line monitor control	02:MONITOR CONT. [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON
03	Country code	03:COUNTRY CODE [X] YES(←) NO(→) [→] Setting X: INT'L→ GBR → ••••• USA
04	Time and date print	04:TIME/DATE PRINT [X] YES(←) NO(→) [→] Setting X: OFF → ONCE → → ALL
05	TSI print	05:TSI PRINT [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON
06	No toner memory reception	06:NO TONER MEM. RX [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON
07	TAD mode (For external telephone answering device.)	07:TAD MODE [X] YES(←) NO(→) [→] Setting X: OFF → TYPE1 → → TYPE2
08	Real-time dialling	08:REAL TIME DIAL [X] YES(←) NO(→) [→] Setting X: OFF → TYPE1 → → TYPE2
09	TEL/FAX switching	09:TEL/FAX SWITCH [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON
10	MDY/DMY format	10:MDY/DMY [X] YES(←) NO(→) [→] Setting (Toggle) X: MDY ⇆ DMY
11	Long document transmission	11:LONG DOC. SCAN [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON

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Table 2.9.2 (2/5) Technial Functions

T.F. No.	Name of Function	The Display Shows
12	Tone for echo (echo protection)	12:TONE FOR ECHO [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON
13	MH only	13:MH ONLY [X] YES(←) NO(→) [→] Setting (Toggle) X: OFF ⇆ ON
14 Rev.3	High-speed modem rate (28.8k and 33.6k for OKIFAX 5500/5600)	14:H/MODEM RATE [X] YES(←) NO(→) [→] Setting X: 4.8k → 9.6k → → 14.4k → 28.8k → 33.6k
15 Rev.3	T1 (TX), timeout value (XTTO value)	15:T1(TX)TIMER VALUE [X] YES(←) NO(→) [←] To 16: T1(RX) TIMER VALUE X: 010 - 255 sec [→] 15:T1(TX)TIMER VALUE [060] ENTER 010-255 3-digit timer entered. 15:T1(TX)TIMER VALUE [059] YES(←) NO(→) [→] (Example)
16 Rev.3	T1 (RX), timeout value	16:T1(RX)TIMER VALUE [X] YES(←) NO(→) [←] To 17: T2 TIMER VALUE X: 010 - 255 sec [→] 16:T1(RX)TIMER VALUE [_] ENTER 010-255 3-digit timer entered. 16:T1(RX)TIMER VALUE [059] YES(←) NO(→) [→] (Example)

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Table 2.9.2 (3/5) Technial Functions

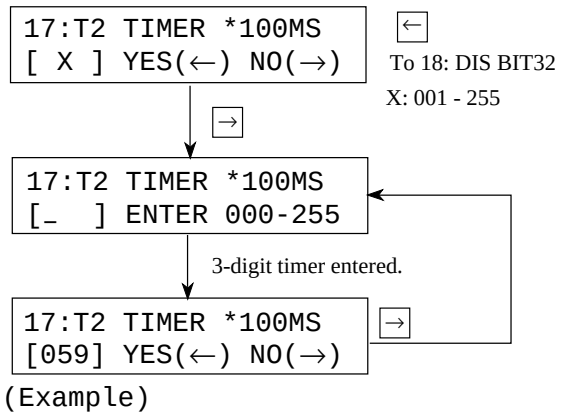
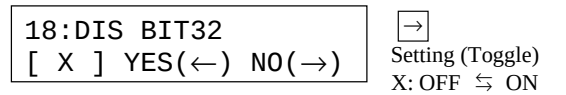
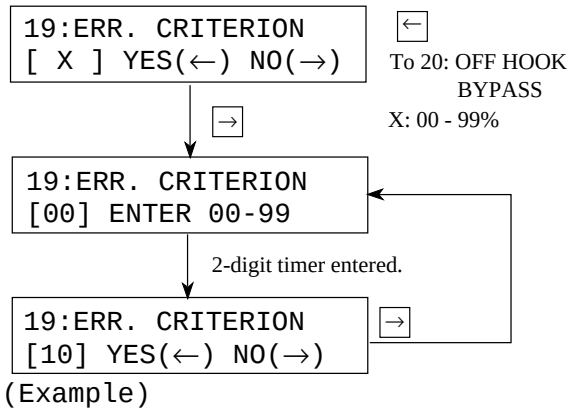
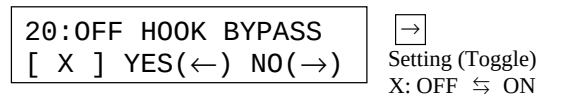
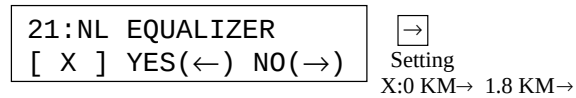
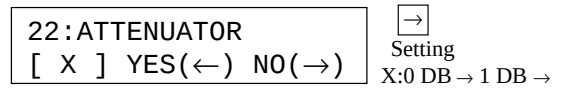
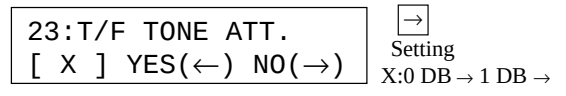
T.F. No.	Name of Function	The Display Shows
17 Rev.3	T2, timeout value	
18	DIS bit 32	
19 Rev.3	Error criterion	
20	Off-hook bypass	
21	NL equalizer	
22	Modem attenuator	
23	T/F tone attenuator (for TEL/FAX switch)	

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Table 2.9.2 (4/5) Technial Functions

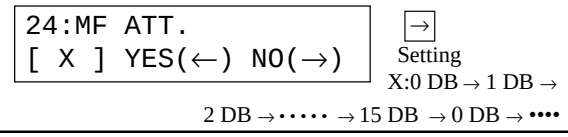
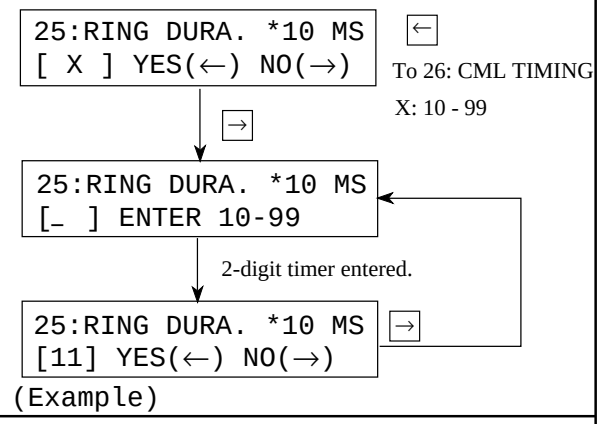
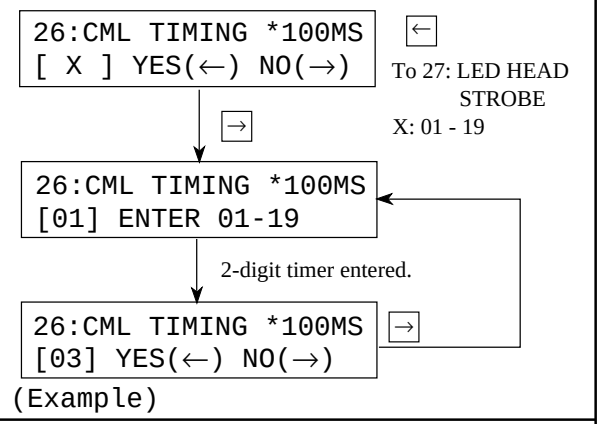
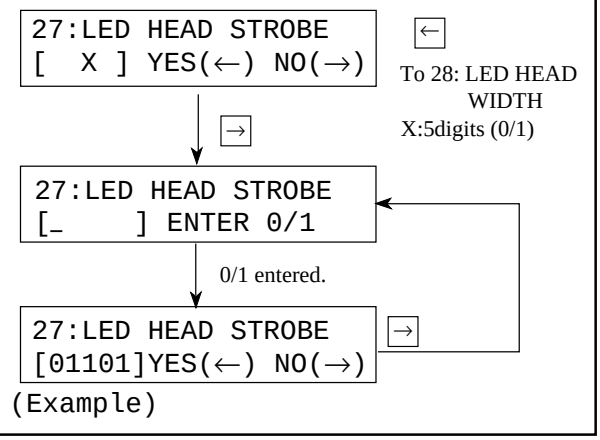
T.F. No.	Name of Function	The Display Shows
24 Rev.3	MF attenuator	
25 Rev.3	Ring duration detection time	
26 Rev.3	CML timing	
27 Rev.3	LED Head strobe	

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Table 2.9.2 (5/5) Technial Functions

T.F. No.	Name of Function	The Display Shows
28 Rev.3	LED Head Width	28:LED HEAD WIDTH [X] YES(←) NO(→) [→] Setting (Toggle) X: TYPE1 ⇆ TYPE2
29	Media type	29:MEDIA TYPE [X] YES(←) NO(→) [→] Setting X: M → MH → H
30	Transfer roller clatch current (for OKIOFFICE44/ OKIFAX 4100)	30:TR LATCH CURRENT [X] YES(←) NO(→) [→] Setting X:–1 → 0 → +1 → +2
31 Rev.3	Symbol rate (for OKIFAX 5500/5600)	31:SYMBOL RATE [X] YES(←) NO(→) [→] Setting X:3429 →2400 → 2800 → 3200 → 3429

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2.9.4 User's Functions

This section explains the items usually set up by general users.

Table 2.9.3 shows the initial setting items and their purposes.

Each F.P.can be accessed by entering the corresponding function number on Function Programming.

The detailed procedure of the initial setting items will be explained on the following pages.

***Note*:** S-ON: Effective if the service bit has been set on.
FP: Function program setting
TF: Technical function setting

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1) User's Functions

Table 2.9.3 (1/6) User's Functions

No.	Item	Specifications
1	Auto dial 1) One-touch dial	10 one-touch keys are provided. (OKIOFFICE44/ OKIFAX 4100) 15 one-touch keys are provided. (OKIFAX 5200/5300) 30 one-touch keys are provided. (OKIFAX 5500/5600) Max. 32 digits for each location number. In addition to an ordinary location number, another alternate location number can be registered in to each one-touch key. Purposes of this alternate location number: 1) Fax dial A fax number is registered as an alternate location number. When a call to the first location number is not answered, the alternate location number will be automatically dialled.
	2) Two-digit dial	45 different codes are provided. (OKIOFFICE44/OKIFAX 4100) 64 different codes are provided. (OKIFAX 5200/5300) 99 different codes are provided. (OKIFAX 5500/5600) * Two- digit location code: 01 to 45 (OKIOFFICE44/ OKIFAX 4100) 01 to 64 (OKIFAX 5200/5300) 01 to 99 (OKIFAX 5500/5600) Max. 32 digits for each location number.
	3) Keypad dial	With ten-key pad. Max. 40 digits for one operation
	4) Chain dial	The number of dialling digits can be expanded to longer digit numbers by chaining any number of the above 1), 2) and 3).
	5) Mixed dial (Rev. 3)	Type of dialling can be changed from pulse dial to tone dial halfway in dialling process. The changing point is specified by the * key. This feature is not available in all countries.
2	Manual dial	With a telephone handset.
3	Receive mode 1) Auto receive mode	Selectable by key operation.
	2) Manual recevice mode	Selectable by key operation.
	3) Telephone/fax automatic switchover	Selectable by key operation. The fax recognizes a fax call from a verbal call as follows: If the fax detects a call with a CNG signal, it starts an automatic document receive operation. If it detects a call without a CNG signal, it sounds the buzzer to indicate a voice call. Operator can answer the call by lifting the telephone handset. If he or she does not lift the handset within predetermined time (20 sec. or 35 sec.), the fax automatically starts a document receive operation.

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Table 2.9.3 (2/6) User's Functions

No.	Item	Specifications
		* FP + 10 (To determine the timer.) ***Note:*** Refer to page 2-36.
4	Automatic redial	PTT parameter setting disables or enables this feature, and specifies redial times and redial intervals. * See 2.9.12 for the service bit condition depending on PTT parameters.
5 Rev. 3	Last No. redial	"REDIAL" key is provided. There is no limit on number of repeat attempts. If machine is in Power Save mode (not available for OKIOFFICE44 and OKIFAX5600) manual redial with REDIAL key is not possible.
6	Group dial	• 5 dialling groups (OKIOFFICE44/OKIFAX 4100) Max. 55 locations. • 10 dialling groups (OKIFAX 5200/5300) Max. 79 locations. • 20 dialling groups (OKIFAX 5500/5600) Max. 129 locations. Grouping some one-touch keys and some two-digit auto dial codes to which telephone numbers have been assigned. This group setting makes broadcast operation simple.
7	Telephone directory and location ID (Alpha search)	In addition to fax numbers, an alpha/ numeric name can be assigned to each of one-touch keys and two-digit dial codes, 01 to 45 for OKIOFFICE44/OKIFAX 4100, 01 to 64 for OKIFAX 5200/5300 and 01 to 99 for OKIFAX 5500/5600. This name is called a location ID. Any location ID can be searched and displayed on LCD. Then direct dialling to the ID's station can be performed. There are two methods of searching: (1) Search based on the first character specified. (2) Searching by displaying all registered location IDs one after another in the lexicographical order. Location ID: Max. 15 characters
8	Voice request	A voice request from the transmitter is available only upon completion of the total message transmission. A voice request from the receiver is available at the end of each page being received.
9 Rev.2	Local copy	Printing resolution: Horizontal: 8 PEL/mm (Except OKIOFFICE44 and ODA version) Horizontal: 300 dpi (for ODA version of OKIFAX 5300/5600) Vertical: 7.7 or 15.4 line/mm or variable
10	Multiple local copy	Up to 50 copies for OKIOFFICE44/OKIFAX 4100. Up to 99 copies OKIFAX 5000 series.

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Table 2.9.3 (3/6) User's Functions

No.	Item	Specifications
11 Rev. 3	Manual loading feeder	For OKIFAX 5000 series: One single sheet from the feeder above the first recording paper cassette can be copied. For OKIOFFICE44/OKIFAX4100: One single sheet from the feeder below the paper exit can be copied. Example of sheets: Transparency for an overhead projector
12	Broadcast (Memory transmission)	Max. 56 (OKIOFFICE44/OKIFAX 4100), Max. 84 (OKIFAX 5200/5300) and Max. 134 (OKIFAX 5500/5600) remote locations can be specified by the following means: • One-touch keys (with of without a group list). • Two-digit auto dial codes. • 1 keypad dial number for OKIOFFICE44/OKIFAX 4100 • 5 keypad dial number OKIFAX 5000 series One delayed time of calling for this feature can be specified unless any other delayed calling feature has been specified. The combination of 1 delayed broadcast for OKIOFFICE44/ OKIFAX 4100, 5 delayed broadcast for OKIFAX 5200/5300, 20 delayed broadcast for OKIFAX 5500/5600 and one immediate calling of broadcast is possible. However, the setting of delayed transmission and delayed broadcast must not exceed the total number of specified time which is different according to the machine. For example in case of OKIFAX 5200/5300 (5 specified times): 2 specified time of delayed broadcast and 3 specified time of delayed transmission. When multiple locations are specified for one broadcast (1) The OKIOFFICE44/OKIFAX 4100/5000 series prints a broadcast entry report, if specified in operating sequence. (2) The OKIOFFICE44/OKIFAX 4100/5000 series can print a broadcast confirmation report. (FP + 02 To enable or disable this printout)
13	Delayed transmission from the memory	The fax can automatically transmit documents at one specified time for OKIOFFICE44/OKIFAX 4100 and five specified times for OKIFAX 5000 series from the memory.
14	Polling transmission (To be polled)	Document(s) placed on the feeder can be collected by a remote station.
15	Polling reception	The fax can collect documents from one remote station.
16	Transmission preparation (Hopper)	An operator can prepare documents for transmission even while the fax is enagaged in message reception. They will be automatically transmitted upon completion of the reception. An operator can also prepare documents for transmission during transmission from memory.

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Table 2.9.3 (4/6) User's Functions

No.	Item	Specifications
17	No toner reception	The fax can temporarily store received messages in memory when toner has run out. The messages are printed when toner has been newly supplied or an operator presses the SELECT FUNCTION key followed by the one-touch key No. 10 under the LCD message "MSG. IN MEMORY/REPLACE TONER CART." in the standby mode. * TF + 06 (To enable or disable this function)
18	Smooth printing	The documents received in the STD mode can be printed at the FINE resolution by means of generating one line based on the two consecutive original lines and printing it between them.
19 Rev. 3	Dual Access (except OKIOFFICE44/ OKIFAX 4100)	The documents for transmission can be read into the memory even while the fax is engaged in another memory transmission, reception in the ECM or non-ECM mode. 1) Operation of memory transmission while the fax is engaged in a communication (memory TX, memory RX or print mode RX). 2) Copy while the fax is engaged in a communication (memory TX or memory RX). ***Note:*** Condition for operation a) Copy is invalid when the machine is already engaged in an operation which is using or could use the printer. 3) Call reception while the fax is engaged in scanning documents for memory transmission when the auto receive mode is in "FAX" or "T/F" mode, although "TEL" mode is not valid. Refer to sub-section 2.9.7 for dual access operation. For the patterns of dual access refer to the following, Dual Access Combination Table.

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Table 2.9.3 (5/6) User's Functions

No.	Item	Specifications

Dual Access Combination Table (1/2)

Machine Status / Dual Access		Program-ming	TX from Feeder		Scanning to Memory		TX from Memory			RX (non-ECM/ECM)				
										Paper		Memory		
			During Scanning	After Scanning	During Prefeeding	During Scanning	During Dialing	During Hand-shaking	During Trans-mitting Message	During Hand-shaking	During Receiving Message	During Hand-shaking (~1st ϕ C)	During Hand-shaking (~1st ϕ C)	During Receiving Message
Programming		\	×	×	×	×	×	×	×	×	×	×	×	×
TX from Feeder	Setting	×	\	○	\	\	○	○	○	○	○	○	○	○
	Dial & TX	×	\	\	\	\	\	\	\	\	\	\	\	\
Polling RX	Setting	×	×	×	×	×	×	×	×	×	×	×	×	×
	Dial & RX	×	\	\	×	×	\	\	\	\	\	\	\	\
Scanning to Memory		×	\	○	\	\	○	○	○	○	○	○	○	○
TX from Memory		×	\	\	×	×	\	\	\	\	\	\	\	\
Auto Answer	RX to Paper	×	\	\	○	○	\	\	\	\	\	\	\	\
	RX to Memory	×	\	\	○	○	\	\	\	\	\	\	\	\
	Poll TX	×	\	\	\	\	\	\	\	\	\	\	\	\
Manual Answer	RX to Paper	×	\	\	×	×	\	\	\	\	\	\	\	\
	RX to Memory	×	\	\	×	×	\	\	\	\	\	\	\	\
	Poll TX	×	\	\	×	×	\	\	\	\	\	\	\	\
Copy	Page by Page	×	\	×	\	\	×	×	×	×	×	○	○	○
Manual Message Print	Auto	×	×	×	○	○	○	○	○	\	\	○	○	○
	Manual	×	×	×	×	×	×	×	×	\	\	×	×	×
Manual Report Print	Auto	×	×	×	○	○	○	○	○	\	\	○	○	○
	Manual	×	×	×	×	×	×	×	×	\	\	×	×	×

<***Note***> ○ : Available × : Not available △:Available with limitation

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Table 2.9.3 (6/6) User's Functions

No.	Item	Specifications

Dual Access Combination Table (2/2)

Machine Status / Dual Access		Copy			Memory Reception Print				Report Printing			
		Page by Page	Multi-Sorting		Auto Matic		Manual		Auto Matic		Manual	
			During Scanning	During Printing	During Hopping	During Printing	During Hopping	During Printing	During Hopping	During Printing	During Hopping	During Printing
Programming		×	×	×	×	×	×	×	×	×	×	×
TX from Feeder	Setting	\	\	\	○	○	×	×	○	○	×	×
	Dial & TX	\	\	\	○	○	×	×	○	○	×	×
Polling RX	Setting	×	×	×	×	×	×	×	×	×	×	×
	Dial & RX	×	×	×	×	×	×	×	×	×	×	×
Scanning to Memory		\	\	\	○	○	×	×	○	○	×	×
TX from Memory		×	×	×	×	×	×	×	×	×	×	×
Auto Answer	RX to Paper	×	×	×	×	×	×	×	×	×	×	×
	RX to Memory	○	○	○	○	○	×	×	○	○	×	×
	Poll TX	×	×	×	×	×	×	×	×	×	×	×
Manual Answer	RX to Paper	×	×	×	×	×	×	×	×	×	×	×
	RX to Memory	×	×	×	×	×	×	×	×	×	×	×
	Poll TX	×	×	×	×	×	×	×	×	×	×	×
Copy	Page by Page	\	\	\	\	\	\	\	\	\	\	\
Manual Message Print	Auto	\	\	\	\	\	\	\	\	\	\	\
	Manual	\	\	\	\	\	\	\	\	\	\	\
Manual Report Print	Auto	\	\	\	\	\	\	\	\	\	\	\
	Manual	\	\	\	\	\	\	\	\	\	\	\

<*Note*> ○ : Available × : Not available

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2) User's Initial Settings

Note: The fonts displayed on the LCD operation panel may differ from fonts written this manual.

2)-1 One Touch Key Operations

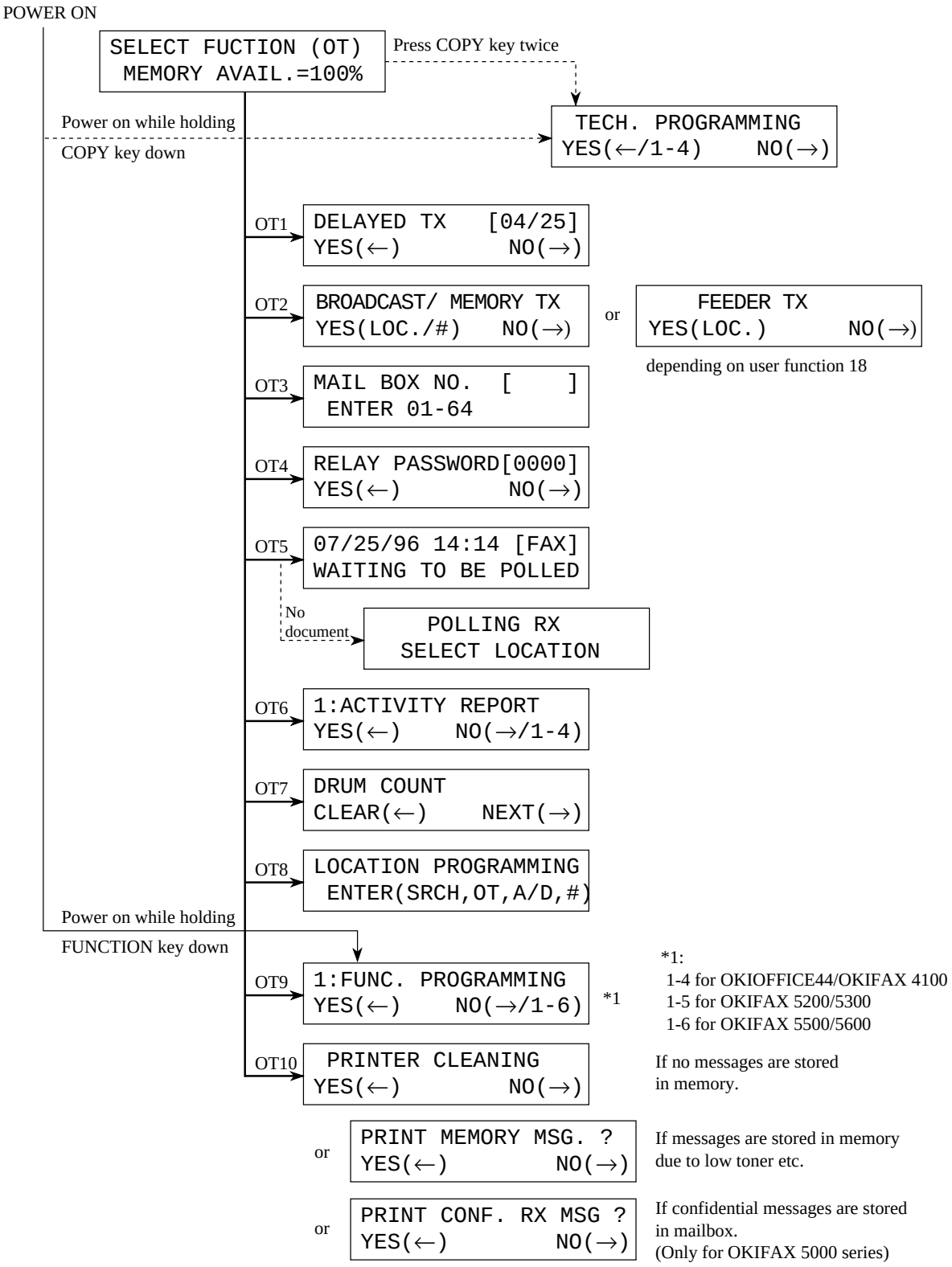

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Table 2.9.4 (1/4) User's Initial Settings (One-touch key Program)

F+OT No.	Item	Specifications
1	Delayed transmission (Tx)	This function enters a message transmission time(s) and location(s) for execution at a specified time.
2	Broadcast/memory transmission	To make a one-time selection of the memory transmission mode. Max. 56 (OKIOFFICE44/OKIFAX 4100), Max. 84 (OKIFAX 5200/5300) and Max. 134 (OKIFAX 5500/5600) remote locations can be specified by the following means: • One-touch key (with of without a group list) • Two-digit auto dial code • Keypad dial number When multiple locations are specified for one broadcast, 1) The fax can print a broadcast confirmation report, if specified in operating sequence.
3	Confidential transmission	To program the mail box number 01 to 64. Available remote station's mail box numbers: OKIFAX 2400/2600: 01 to 40 OKIFAX 1000: 01 to 16 OKIFAX 2300/OF-18/OF-150: 01 to 16 OKIFAX 38/OF-27: 01 to 64 OKIFAX 2350/OKIFAX 1050: 01 to 08 OKIFAX 2450: 01 to 16 OKIFAX 5200/5300: 01 to 08 OKIFAX 5500/5600: 01 to 16
4 Rev.3	Relay broadcast initiate transmission	This function automatically originates a message call via relay key station (which must be equipped with OKIFAX 2600, OF-38, OF-27 or equivalent) up to 120 locations for OKIFAX 2600 and 99 locations for OF-38 or OF-27. To program relay password. To enable or disable the relay report. Enable the relay key station to send to your fax machine a relay report by programming your fax number to auto dial No. 45 for OKIOFFICE44/OKIFAX 4100 or to auto dial No. 64 for OKIFAX 5200/5300 or to auto dial No. 99 for OKIFAX 5500/5600.
5	Polling transmission/reception	Polling TX: The documents placed on the feeder can be collected by a remote station. Polling RX: The fax can collect documents from one remote station.
6	Report printing	1. Activity report 2. Broadcast message confirmation report (Multi location) 3. Phone directory report 4. Configuration report (Serviceman report if service bit sets to ON.) 5. Protocol dump report * TF + 01 (Sets to on Service bit)

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Table 2.9.4 (2/4) User's Initial Settings (One-touch key Program)

F+OT No.	Item	Specifications
		Log. report * TF + 01 (Sets to on Service bit)
7 Rev. 2	Counter display (clear)	The operation for displaying and clearing the print counters in five ways are as follows: 1. Drum counter * User can clear but can not read No. of counter 2. Toner counter * TF + 01 (Sets to on Service bit) 3. Drum (total) continue * TF + 01 (Sets to on Service bit) 4. Print counter * User can read no. of counter in LCD but can not clear. 5. Scan counter * User can read no. of counter in LCD but can not clear.
8	Location program 1. One-touch key	One-touch keys allow registering: (1) Telephone number (numeral, -, P and space) in 32 digits. (2) Alternate fax telephone number in 32 digits. (additional registration) (3) ID for the telephone directory function in 15 characters (alphabetic, numeric and symbolic). (One ID can be registered for one key). (4) 10 one-touch keys are provided (OKIOFFICE44/OKIFAX 4100). 15 one-touch keys are provided (OKIFAX 5200/5300). 30 one-touch keys are provided (OKIFAX 5500/5600).
	2. Two-digit auto dial program (Rev.3)	Auto-dial No. 01 to 45 for OKIOFFICE44/OKIFAX 4100, No. 01 to 64 for OKIFAX 5200/5300 and No. 01 to 99 for OKIFAX 5500/5600 allows registering telephone number in 32 digits (numeral, -, P and space) and ID for the telephone directory maximum 15 characters (alphabetic, numeric and symbolic).
	3. Group setting	Grouping some one-touch keys and some two-digit auto dial codes to which telephone numbers have been assigned. This group setting makes broadcast operation simple. Five dialling groups for OKIOFFICE44/OKIFAX 4100, 10 dialling groups for OKIFAX 5200/5300 and 20 dialling groups for OKIFAX 5500/5600.

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Table 2.9.4 (3/4) User's Initial Settings (One-touch key Program)

F+OT No.	Item	Specifications
9 Rev.3	User's programs 1. Function program	Function program 01: MCF (SINGLE-LOC.) 02: MCF (MULTI-LOC.) 03: ERR. REPORT (MCF.) 04: IMAGE IN MCF. 05: SENDER ID 06: MONITOR VOLUME 07: BUZZER VOLUME 08: CLOSED NETWORK 09: TX MODE DEFAULT 10: T/F TIMER PRG. 11: RING RESPONSE 12: DISTINCTIVE RING 13: 1'ST PAPER SIZE 14: 2'ND PAPER SIZE 15: USER LANGUAGE 16: INCOMING RING 17: REMOTE RECEIVE 18: MEM./FEEDER SW. 19: POWER SAVE MODE 20: ECM FUNCTION 21: REMOTE DIAGNOSIS 22: PC/FAX SWITCH 23: ONE TOUCH PARAM. Refer to Table 2.9.4 for Specification of the function programs No. 01 through 23
	2. Dial parameters	Dial parameters 1. REDIAL TRIES 2. REDIAL INTERVAL 3. DIAL TONE DETECT 4. BUSY TONE DETECT 5. MF (TONE)/DP (PULSE) 6. PULSE DIAL RATE 7. PULSE MAKE RATIO 8. PULSE DIAL TYPE 9. MF(TONE) DURATION 10. PBX LINE 11. FLASH/EARTH/NORMAL 12. AUTO START 13. DIAL PREFIX 14. IT2 DETECT (FRE only) Refer to Table 2.9.6 for specification of dial parameter settings.
	3. Clock adjustment	Date and time adjustment.

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Table 2.9.4 (4/4) User's Initial Settings (One-touch key Program)

F+OT No.	Item	Specifications
	4. System data program (Rev.3)	(1) TSI/CSI (except for SUI and AUT) Registration of TSI/CSI/CIG (numbers, + and space) in 20 digits. TSI:Transmitting Subscriber Identification CSI: Called Subscriber Identification CIG: Calling Subscriber Identification (2) SENDER ID Registration of sender ID (alphabetic, numeric and symbolic) in 32 digits. (3) CALL BACK NO. Registration of telephone number for call-back message (alphabetic, numeric and symbolic) in 20 digits.
	5. Password program (except OKIOFFICE44/ OKIFAX 4100)	To allow the operator (in this case, a person who wishes to assign a password to mail box) to assign a 4-digit password code to one of 8 for OKIFAX 5200/5300 and 16 for OKIFAX 5500/5600 mail-box memory segments in the message memory.
	6. Forwarding number programming (for OKIFAX 5500/5600)	The message is first received in the memory and when this reception is completed, automatically the fax transfers the message to one designated location.
10	Print operation 1. Substitutive message print (Rev.3)	Substitutive message print The messages are printed when toner has been newly supplied or an operator performs the substitutive operation. When memory reception data exists in the memory and the MEMORY RX MODE is indicated by AUTO REC key operation for OKIFAX 5000 series, machine will print out the memory reception data.
	2. Confidential reception message print	Confidential RX message print Printing is enabled for received message in the personal box in memory only when the password entered by the operator matches that already registered to the box. • 8 mailboxes for OKIFAX 5200/5300. • 16 mailboxes for OKIFAX 5500/5600.
	3. Printer cleaning	This drum cleaning function removes the residual toner on the I/D (image drum) Unit surface by printing.

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2)-2 Function Program

Table 2.9.4 (1/4) User's Initial Settings (Function Program)

P.F. No.	Item	Specifications	Default
01	Message confirmation report (Single location)	Enables or disables the automatic message confirmation report printing after a single location call. ON: Printing the MCF report. OFF: Disables this function.	
02	Message confirmation report (Multiple locations)	Enables or disables the automatic message confirmation report printing after a multiple polling or broadcast. ON: Prints the MCF report. OFF: Disables this function.	
03	Error report (MCF)	Enables or disables the automatic error report printing when transmission error occurs. (Excepts for service bit "0".) ON: Printing the error report. OFF: Disables this function.	
04 Rev.3	Image in MCF	Enables or disables the automatic printing of the image on the first sheet below the message confirmation report. ON: Printing the image in MCF report. (Memory transmission and if the report is printed automatically.) OFF: Disables this function.	
05	Sender ID	The fax can transmit programmed alphanumeric message, such as company's name consisting of up to 32 characters. Enables or disables the sender ID function. * (Outside only) ON: Enables OFF: Disables	
06	Line monitor volume	Controls the volume. OFF/Low/High selectable.	
07	Buzzer volume	Selects the sound volume of each buzzer (end of communication buzzer, voice request buzzer and off-hook alarm) and software ringer from high, low and middle levels. Low/Mid/High selectable. ***Note:*** Fixed a low level for key touch tone.	

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Table 2.9.4 (2/4) User's Initial Settings (Function Program)

P.F. No.	Item	Specifications	Default
08	Closed network	The fax compares lower four digits of TSI/CSI received from remote station with fax numbers registered locally for one-touch dial and two-digits autodial. If unmatched, the communication will be automatically disconnected. OFF/RX only/TX and RX selectable. * Prevention of direct mail or wrong number calls. (Reference) TSI: Transmitting subscriber identification CSI: Called subscriber identification	
09	TX mode default	Selects automatically the mode set up when a document is loaded on the feeder. The following combinations are selectable. STD/NORMAL→STD/DARK→STD/LIGHT→ FINE/NORMAL→FINE/DARK→FINE/LIGHT→ EX.FINE/NORMAL→EX.FINE/DARK→ EX.FINE/LIGHT→PHOTO/NORMAL→ PHOTO/DARK→PHOTO/LIGHT→ STD/NORMAL→ • • •	
10	Telephone/fax automatic switchover time	Specifies the time for which the fax alerts an operator on reception of a call in the telephone/fax automatic swichover mode. 20 sec./35 sec. selectable Refer to page 2-36	
11	Ring response time	User can register ring response time if National code is: INT'L, GBR, NOR, SWE, USA, HOL, ESP. ITA, GRE or GER Selects the ring response time. 1 ring/5/10/15/20 sec. selectable.	
12 Rev.3	Distinct ring	Specifies the detected distinct ring. (not available in all countries) OFF/ON/SET selectable.	
13	1'st cassette paper size	Selects A4, LETTER or LEGAL 13˘, LEGAL 14˘/ OTHER (when installing Bi-Centro board) by this function. The operator must select the preferable paper size as the machine cannot detect the paper size automatically.	

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Table 2.9.4 (3/4) User's Initial Settings (Function Program)

P.F. No.	Item	Specifications	Default
14	2'nd cassette paper size (option)	Selects A4, LETTER or LEGAL 13˜, LEGAL 14˜/ OTHER (when installing Bi-Centro board) by this function. The operator must select the preferable paper size as the machine cannot detect the paper size automatically. (for OKIFAX 5000 series)	
15	User language	A choice of 2 languages for LCD and print message are available. Language 1 and Language 2	
16 Rev.2	Incoming ring	Instead of ringer circuit, software can control built-in speaker to ring sound. To enable (ON) or disable (OFF) or distinctive ring (DRC) a software generated ring sound to indicate arrival of an incoming bell.	
17	Remote receive	This function is used to transfer the call received by external telephone (connected to fax) by entering pre-set two-digits. The following combinations are selectable. 00/11/22/33/44/55/66/77/88/99/**/##/OFF selectable.	
18	Memory and feeder switch	Switches the transmission mode between the memory and feeder. MEM. TX/FEEDER TX selectable. ***Note:*** Memory or feeder setting can register as the defult by operating the "F + OT 2".	
19 Rev.3	Power save mode	When the fax becomes the operation state, power supply is feeding to the all circuits. By adoption of this system, power consumption at standby state becomes below 0.5 W ***Note:*** Power save mode is not available forOKIOFFICE44/OKIFAX5300/5600. Pre-heating time (Standby to print): Approx 30 sec for OKIOFFICE44/OKIFAX 4100 Approx 20 sec for OKIFAX 5000 series Eanbles or disables power save mode ON: Enables OFF: Disables	
20	ECM function	Enables or disables ECM (error corection mode) communication. ON: Enables OFF: Disables	

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Table 2.9.4 (4/4) User's Initial Settings (Function Program)

P.F. No.	Item	Specifications	Default
21	Remote diagnosis	Enables or disables the remote diagnosis function when the machine can allow remote diagnosis from remote center. ON: Enables OFF: Disables	
22	PC/FAX switch	When the host side does not respond at the time of incoming call to PC, specifies whether to starts forcibly as fax reception or not. ON: Enables OFF: Disables ***Note:*** When the Bi-Centro board is installed on the fax, PC/FAX switching mode appears in the LCD display.	
23	One-touch key parameters	To assign the following features to each one-touch key. 1) Echo protection (ON/OFF)	

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2.9.5 User's Functions Example

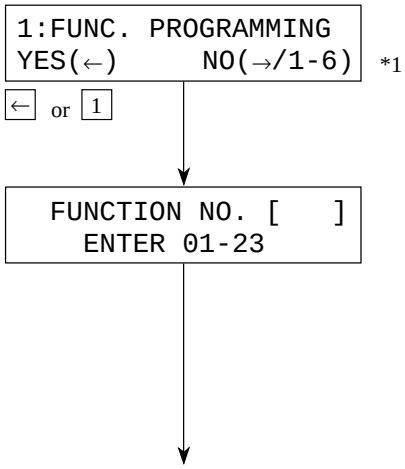
Note: The fonts displayed on the LCD operation panel may differ from fonts written this manual.

1) Function Program

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode. (In case of no message in memory)
- Press [←] key.
- Enter two-digit function number, then the display will show the set item corresponding to the number entered. If you want to set up all or several items starting with 01, then enter 01.

The display shows:



To an individual setting item.
(See Table 2.9.5)

*1 OKIOFFICE44/OKIFAX 4100 :NO (→/1–4)
OKIFAX 5200/5300 :NO (→/1–5)
OKIFAX 5500/5600 :NO (→/1–6)

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Table 2.9.5 (1/2) User's Functions

Tap No.	Name of Function	The Display Shows
0 1	Message confirmation report (Single location)	01:MCF(SINGLE-LOC.) [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
0 2	Message confirmation report (Multiple locations)	02:MCF (MULTI-LOC.) [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
0 3 *Rev. 2*	Error report	03:ERR. REPORT(MCF.) [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
0 4	Image in MCF.	04:IMAGE IN MCF. [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
0 5	Sender ID	05:SENDER ID [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
0 6	Line monitor volume	06:MONITOR VOLUME [X] YES(←) NO(→) → Setting X: OFF → LOW → HIGH
0 7	Buzzer volume	07:BUZZER VOLUME [X] YES(←) NO(→) → Setting (Toggle) X: MID → HIGH → LOW
0 8	Closed network	08:CLOSED NETWORK [X] YES(←) NO(→) → Setting X: T/R → RX → OFF
0 9	TX mode default	09:TX MODE DEFAULT YES(←) NO(→) → Setting RESOLUTION & ORIGINAL NOTE 1:
1 0	Telephone/fax automatic switchover timer	10:T/F TIMER PRG. [X] YES(←) NO(→) → Setting (Toggle) X: 20SEC ⇆ 35SEC
1 1	Ring response time	11:RING RESPONSE [X] YES(←) NO(→) → Setting X: 1RING → 05SEC → 10SEC → 15SEC → 20SEC NOTE 2:
1 2 *Rev. 2*	Distinct ring	12:DISTINCTIVE RING [X] YES(←) NO(→) → Setting (Toggle) X:OFF → ON → SET NOTE 2:

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Table 2.9.5 (2/2) User's Functions

Tap No.	Name of Function	The Display Shows
1 3	1st cassette paper size	13:1'ST PAPER SIZE [X] YES(←) NO(→) → Setting X: A4 → LET → LGL 13 → LGL 14 → OTHER → A4
1 4	2ndcassette paper size (option for OKIFAX 5000 series)	14:2'ND PAPER SIZE [X] YES(←) NO(→) → Setting X: A4 → LET → LGL 13 → LGL 14 → OTHER → A4 NOTE 3:
1 5	User language	15:USER LANGUAGE [X] YES(←) NO(→) → Setting X: ENG. ⇆ (Other)
1 6 *Rev. 3*	Incoming ring	16:INCOMING RING [X] YES(←) NO(→) → Setting (Toggle) X: OFF → ON → DRC → OFF
1 7 *Rev. 3*	Remote receive	17:REMOTE RECEIVE [X] YES(←) NO(→) OFF → 00 → 11 → 22 → 33 → 44 → 55 → 77 → 88 → 99 → ## → ** → OFF
1 8	Memory and feeder selection	18:MEM/FEEDER SW. [X] YES(←) NO(→) → Setting X: MEM. ⇆ FEED.
1 9 *Rev. 3*	Power save mode (not available for OKIOFFICE44/ OKIFAX5300/5600)	19:POWER SAVE MODE [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
2 0	ECM function	20:ECM FUNCTION [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
2 1 *Rev. 2*	Remote diagnosis	21:REMOTE DIAGNOSIS [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON
2 2 *Rev. 3*	PC/FAX switch (option for OKIFAX 4100/5000 series)	22:PC/FAX SWITCH [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON NOTE 4:
2 3	One-touch key parameters	23:ONE TOUCH PARAM. YES(OT) NO(→) → To: FUNCTION NO. One-touch key pressed. ECHO PROTECTION [X] YES(←) NO(→) → Setting (Toggle) X: OFF ⇆ ON ←

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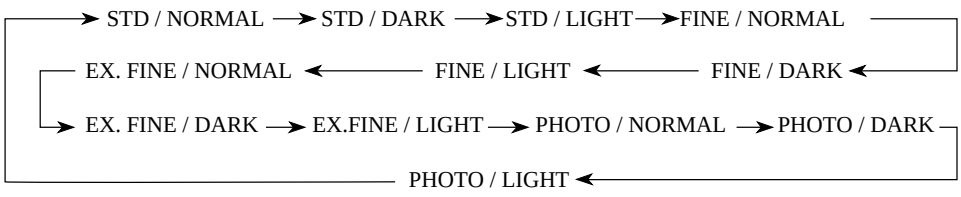
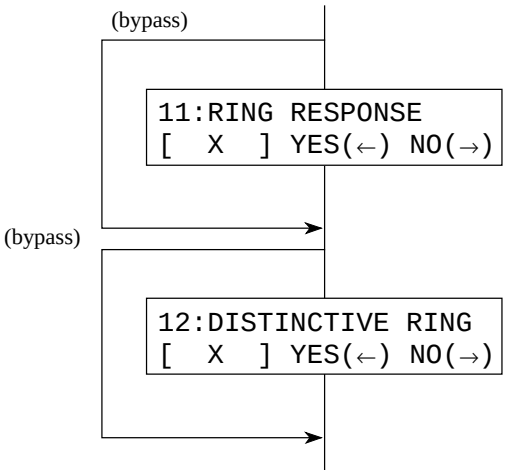
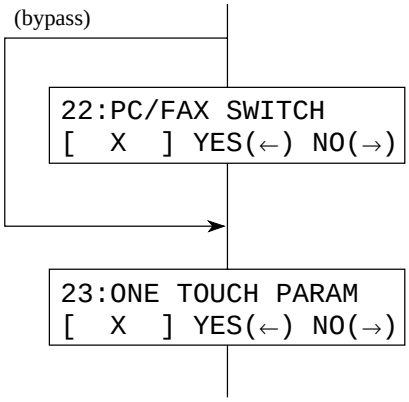
Note1: RESOLUTION & ORIGINAL of Tx mode defult setting can be selected by using [→] key.



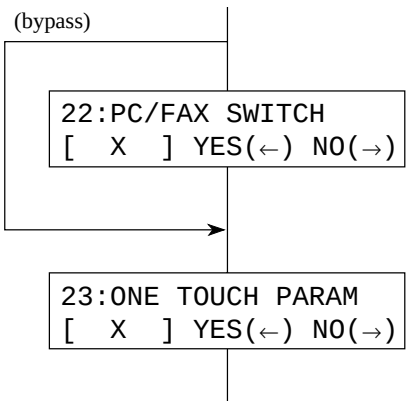
Note2: When the service bit is set to "off" and the corresponding bit of XPARA of national code is set to "off",
Rev. 3 Ring response and/or Distinctive ring is bypassesd as follows:



Note3: When 2'nd tray is not mounted on OKIFAX 5000 series, 2'nd paper size is bypassed as follows:
Rev. 3



Note4: When CTR board is not mounted on OKIOFFICE44/OKIFAX 4100/5000 series, PC/FAX switch is
Rev. 3 bypassed as follows:



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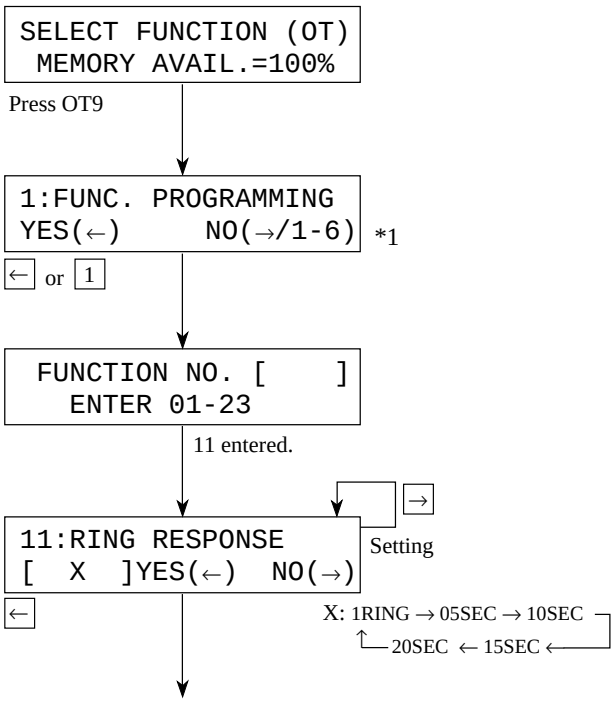
2) Ring response time

Before specifying the ring response time, set the service bit on following the operations shown in 2.9.3 (1). (Service Bit Setting).

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode. (In case of no message in memory)
- Press ← key enter using the ten-key pad.
- Enter 11 using the ten-key pad.
- Press → key until the setting you want is displayed, then press ← key.

The display shows:



(Each ring response time of 5,10,15 or 20 sec. is given by pressing → key.)

*1 OKIOFFICE44/OKIFAX 4100 :NO (→/1–4)
OKIFAX 5200/5300 :NO (→/1–5)
OKIFAX 5500/5600 :NO (→/1–6)

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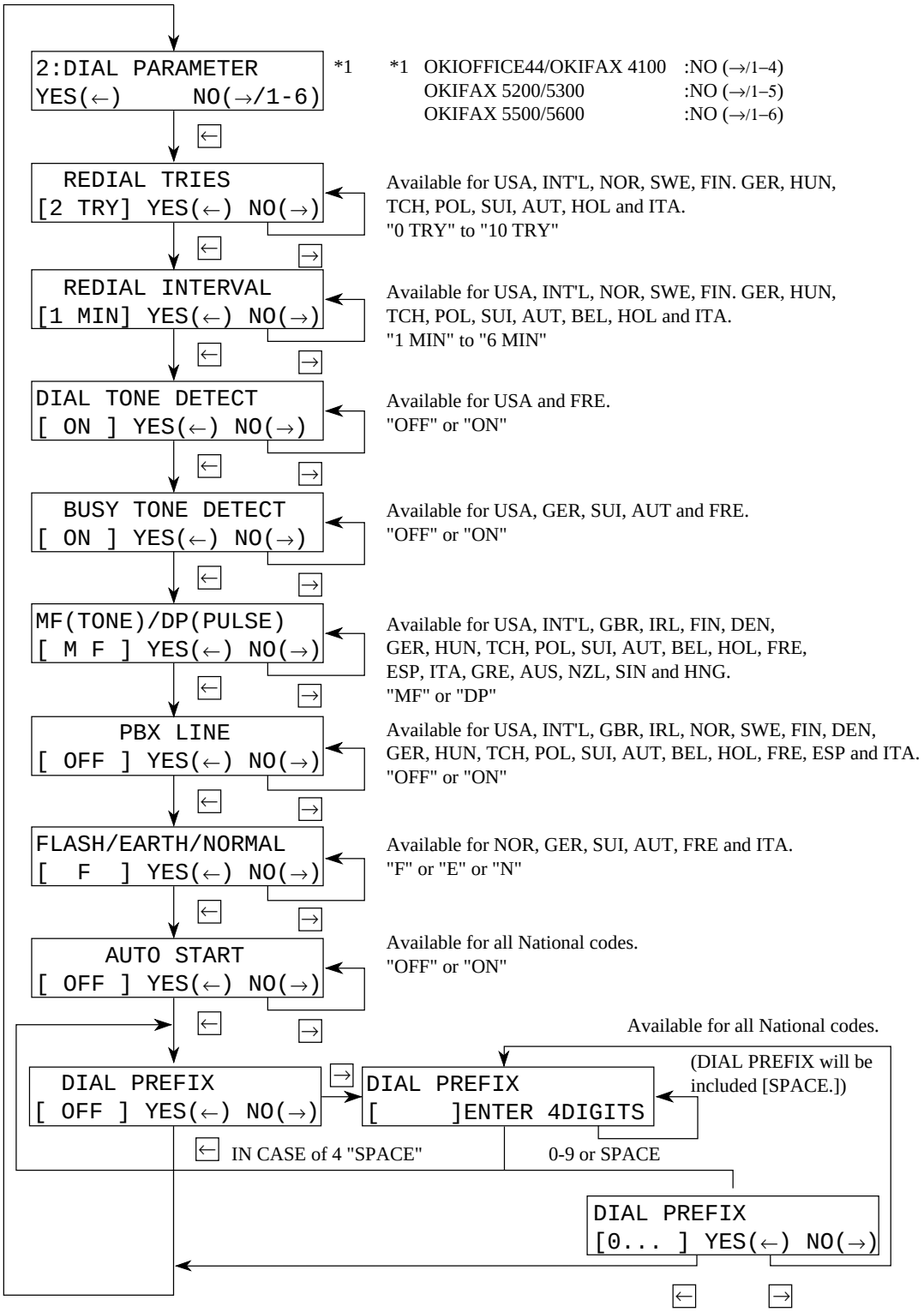
3) Dial parameters (In case the service bit is "OFF".)

To get the "DIAL PARAMETER" message on the display, perform the same operetion as Table 2.9.6. (Dial parammeters settings).


2:DIAL PARAMETER
YES(←) NO(→/1-6)
*1
*1 OKIOFFICE44/OKIFAX 4100 :NO (→/1–4)
OKIFAX 5200/5300 :NO (→/1–5)
OKIFAX 5500/5600 :NO (→/1–6)
REDIAL TRIES
[2 TRY] YES(←) NO(→)
Available for USA, INT'L, NOR, SWE, FIN. GER, HUN, TCH, POL, SUI, AUT, HOL and ITA.
"0 TRY" to "10 TRY"
REDIAL INTERVAL
[1 MIN] YES(←) NO(→)
Available for USA, INT'L, NOR, SWE, FIN. GER, HUN, TCH, POL, SUI, AUT, BEL, HOL and ITA.
"1 MIN" to "6 MIN"
DIAL TONE DETECT
[ON] YES(←) NO(→)
Available for USA and FRE.
"OFF" or "ON"
BUSY TONE DETECT
[ON] YES(←) NO(→)
Available for USA, GER, SUI, AUT and FRE.
"OFF" or "ON"
MF(TONE)/DP(PULSE)
[M F] YES(←) NO(→)
Available for USA, INT'L, GBR, IRL, FIN, DEN, GER, HUN, TCH, POL, SUI, AUT, BEL, HOL, FRE, ESP, ITA, GRE, AUS, NZL, SIN and HNG.
"MF" or "DP"
PBX LINE
[OFF] YES(←) NO(→)
Available for USA, INT'L, GBR, IRL, NOR, SWE, FIN, DEN, GER, HUN, TCH, POL, SUI, AUT, BEL, HOL, FRE, ESP and ITA.
"OFF" or "ON"
FLASH/EARTH/NORMAL
[F] YES(←) NO(→)
Available for NOR, GER, SUI, AUT, FRE and ITA.
"F" or "E" or "N"
AUTO START
[OFF] YES(←) NO(→)
Available for all National codes.
"OFF" or "ON"
Available for all National codes.
DIAL PREFIX
[OFF] YES(←) NO(→)
DIAL PREFIX
[ ]ENTER 4DIGITS
(DIAL PREFIX will be included [SPACE.])
IN CASE of 4 "SPACE"
0-9 or SPACE
DIAL PREFIX
[0...] YES(←) NO(→)

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The following table can be set depending on the National codes even if the service bit is "off".

Table 2.9.10 Dial parameters setting if the service bit "OFF"

NATIONAL CODE	USA	INT'L	GBR	IRL	NOR	SWE	FIN	DEN	GER	HUN	TCH	POL
Redial tries	○	○			○	○	○		○	○	○	○
Redial interval	○	○			○	○	○		○	○	○	○
Dial tone detect	○											
Busy tone detect	○								○			
MF/DP	○	○	○	○			○	○	○	○	○	○
Pulse dial rate												
Pulse make ratio												
Pulse dial type												
MF duration												
PBX line	○	○	○	○	○	○	○	○	○	○	○	○
Flash/Earth/Normal					○				○			
Auto start	○	○	○	○	○	○	○	○	○	○	○	○
Dial	○	○	○	○	○	○	○	○	○	○	○	○
IT2 detect												

NATIONAL CODE	SUI	AUT	BEL	HOL	FRE	ESP	ITA	GRE	AUS	NZL	SIN	HNG
Redial tries	○	○		○			○					
Redial interval	○	○	○	○			○					
Dial tone detect					○							
Busy tone detect	○	○			○							
MF/DP	○	○	○	○	○	○	○	○	○	○	○	○
Pulse dial rate												
Pulse make ratio												
Pulse dial type												
MF duration												
PBX line	○	○	○	○	○	○	○					
Flash/Earth/Normal	○	○			○		○					
Auto start	○	○	○	○	○	○	○	○	○	○	○	○
Dial	○	○	○	○	○	○	○	○	○	○	○	○
IT2 detect												

Note: The blank in the table is not indicated on the LCD.

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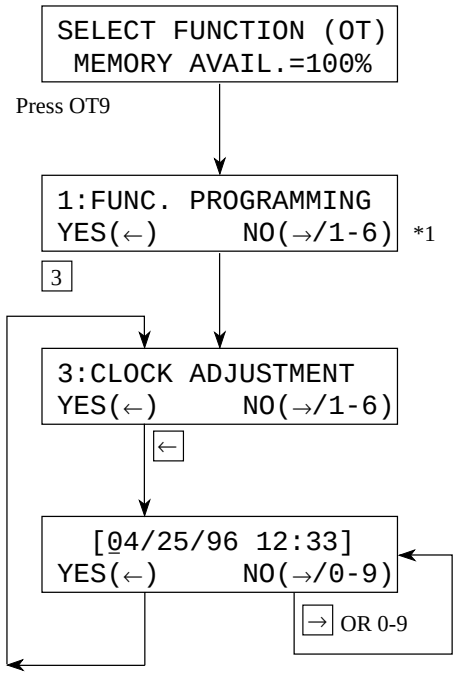
2.9.6 Clock Adjustment

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode. (In case of no message in memory)
- Enter 3 using the ten-key pad.
- Press [←] key.
- Enter date and time by using the ten-key pad (0 to 9 keys).

The display shows:



*1 OKIOFFICE44/OKIFAX 4100 :NO (→/1–4)
OKIFAX 5200/5300 :NO (→/1–5)
OKIFAX 5500/5600 :NO (→/1–6)

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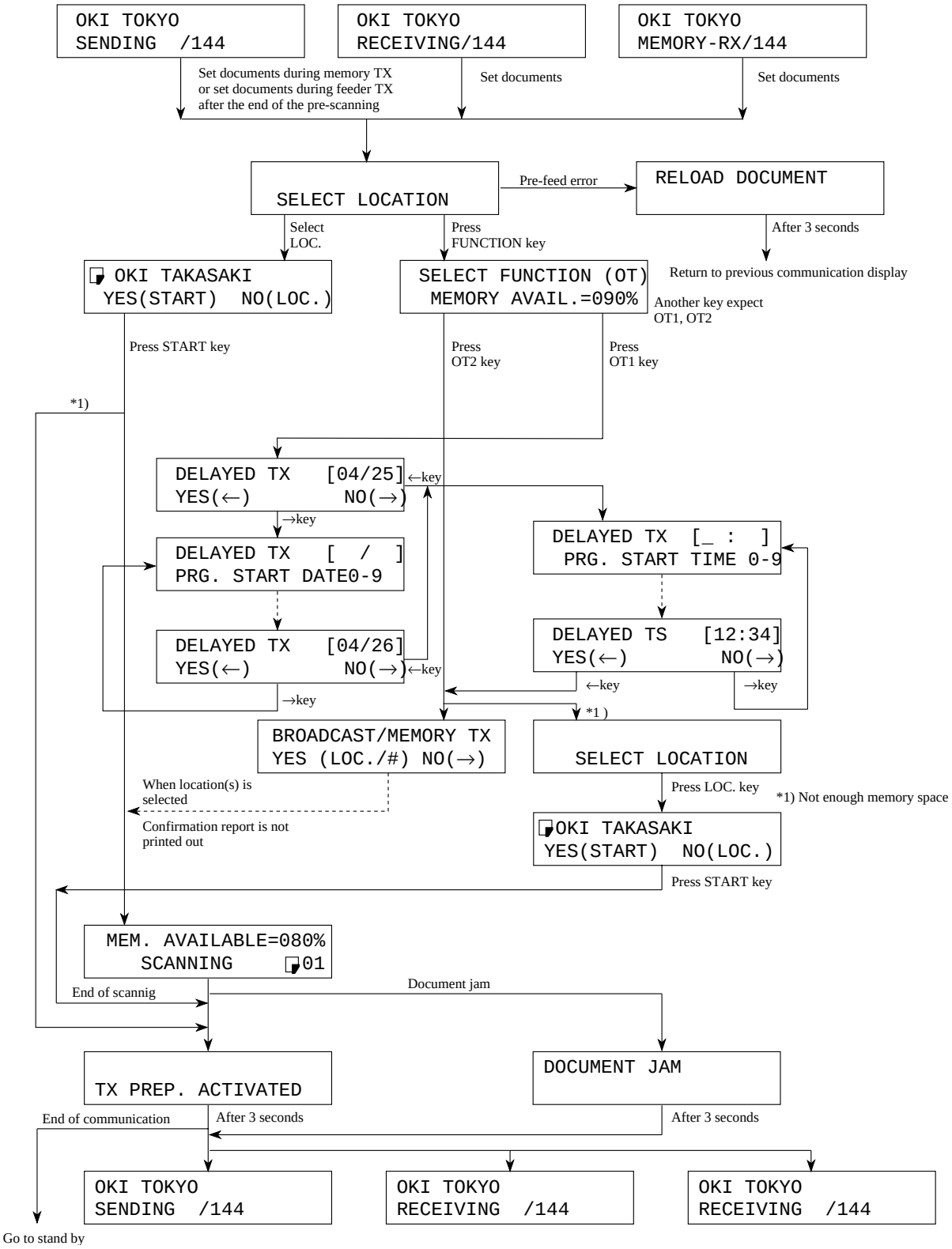
2.9.7 Dual Access Operation (for OKIFAX 5000 series)



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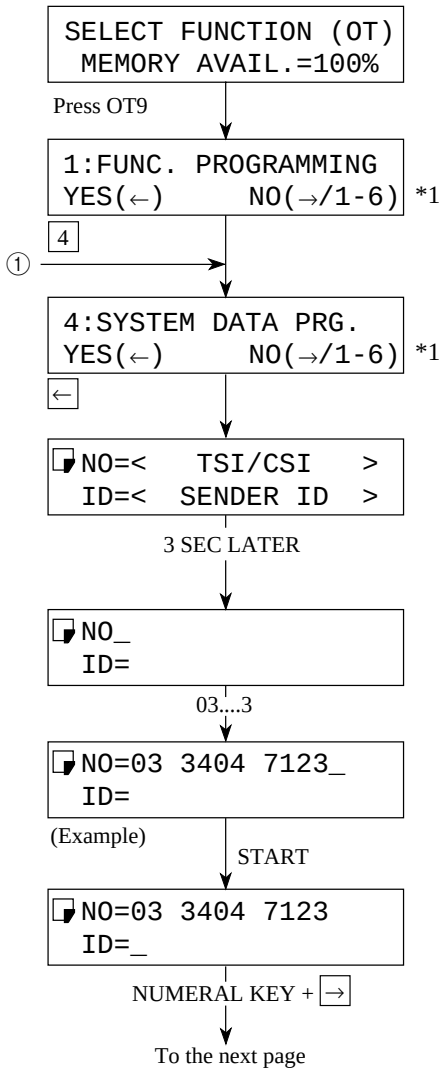
2.9.8 System Data Programming

- TSI/CSI (Defalut: Blank)
- Registration of sender ID (Defalut: Blank)
- Registration of telephone number for the call-back message (Defalut: Blank)

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode.
  (In case of no message in memory)
- Enter 4 using the ten-key pad.
- Press ← key.

The display shows:



*1 OKIOFFICE44/OKIFAX 4100 :NO (→/1–4)
OKIFAX 5200/5300 :NO (→/1–5)
OKIFAX 5500/5600 :NO (→/1–6)

Note: Use the UNIQUE key to input special symbols.

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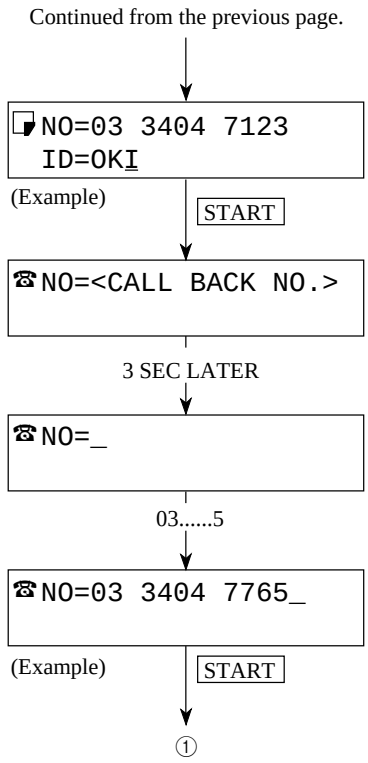
Operations:

The display shows:



- Press START key.

- Press START key.

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2.9.9 Dial Parameters Settings

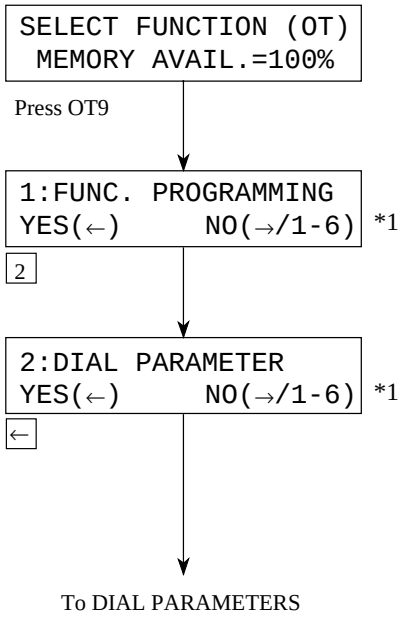
(1) Procedure

The following shows the case in which the service bit is on.

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode. (In case of no message in memory)
- Enter 2 using the ten-key pad.
- Press [←] key.

The display shows:



*1 OKIOFFICE44/OKIFAX 4100 :NO (→/1–4)
OKIFAX 5200/5300 :NO (→/1–5)
OKIFAX 5500/5600 :NO (→/1–6)

*2 Not all of the following dial parameters are released to the users (depending on National codes and if the Service bit is OFF)

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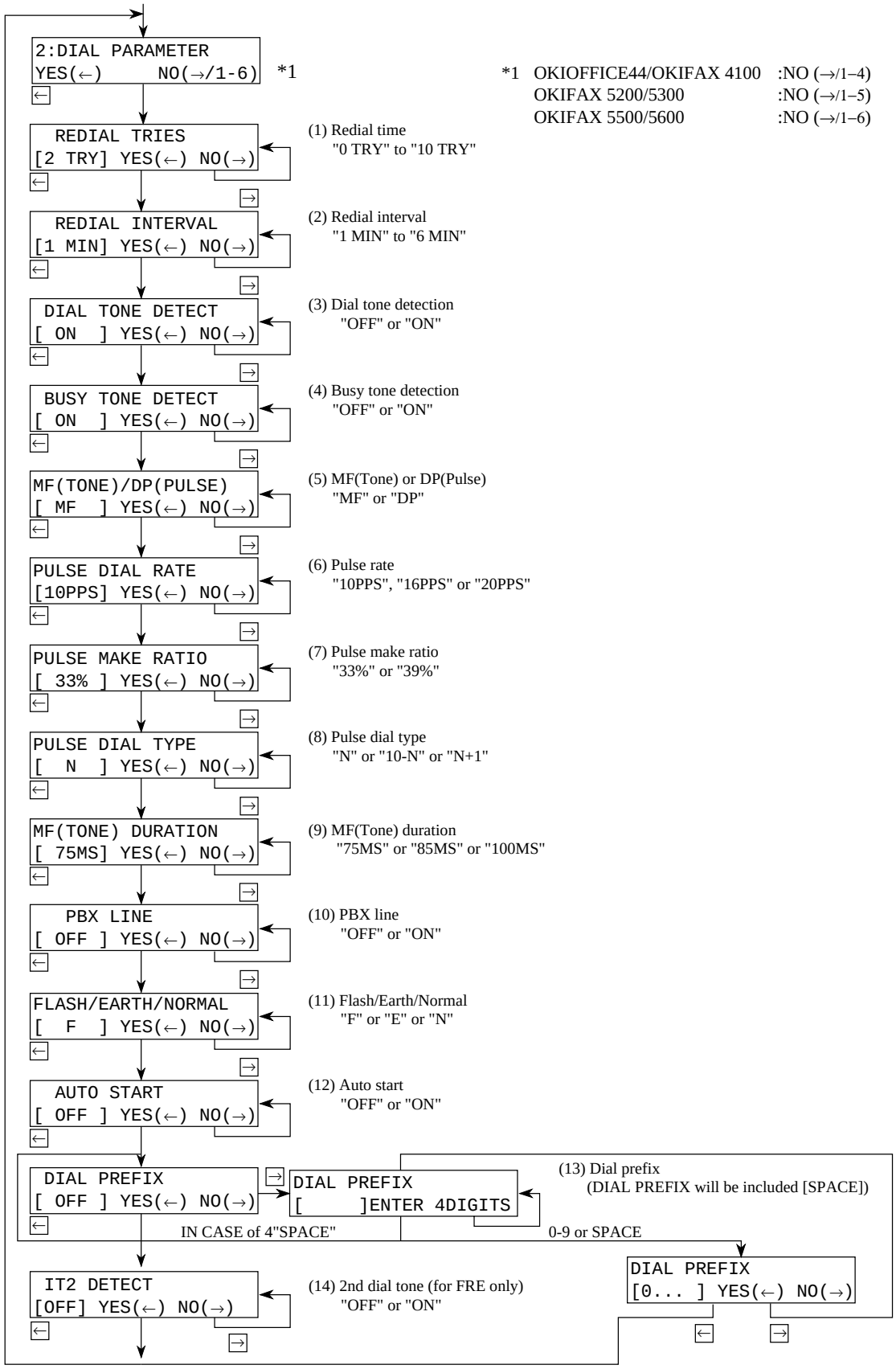
The display shows:

Continued from the previous page.



*1 OKIOFFICE44/OKIFAX 4100 :NO (→/1–4)
OKIFAX 5200/5300 :NO (→/1–5)
OKIFAX 5500/5600 :NO (→/1–6)

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(2) Purpose

Table 2.9.11 Default Settings of Dial Parameters

No.	User Setting Items	Setting Selection	NATIONAL CODE																							
			1 USA	2 INT'L	3 GBR	4 IRL	5 NOR	6 SWE	7 FIN	8 DEN	9 GER	10 HUN	11 TCH	12 POL	13 SUI	14 AUT	15 BEL	16 HOL	17 FRE	18 ESP	19 ITA	20 GRE	21 AUS	22 NZL	23 SIN	24 HNG
1	REDIAL TRIES	0 - 10 TRIES	3	3	2	2	5	10	3	5	10	10	2	2	10	10	3	2	2	2	2	2	2	2	5	2
2	REDIAL INTERVAL	1 - 6 min	3	3	3	3	2	3	3	3	1	1	3	3	1	1	3	3	6	3	3	3	3	3	3	3
3	DIAL TONE DETECT	ON/OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	ON	ON	ON	ON	ON	ON
4	BUSY TONE DETECT	ON/OFF	ON	ON	ON	OFF	ON	ON	ON	ON	ON	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
5	MF (TONE)/DP (PULSE)	DP/MF	MF	MF	MF	MF	MF	MF	MF	MF	DP	DP	MF	DP	MF	DP	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF
6	PULSE DIAL RATE	10 PPS/16 PPS/ 20 PPS	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
7	PULSE MAKE RATIO	33%/39%	39%	33%	33%	33%	33%	39%	39%	39%	39%	33%	39%	33%	39%	39%	33%	39%	33%	33%	39%	39%	33%	33%	33%	33%
8	PULSE DIAL TYPE	N/10-N/N+1	N	N	N	N	N	N+1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	10-N	N	N
9	MF (TONE) DURATION	75 ms/83 ms/100 ms	100	85	85	85	75	85	85	100	85	100	100	100	85	85	85	100	75	85	85	100	85	85	85	85
10	PBX LINE	ON/OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
11	FLASH/EARTH/NORMAL	NORMAL/FLASH/ EARTH	N	N	N	N	N	N	N	N	EARTH	N	N	N	FLASH	EARTH	N	N	FLASH	N	N	N	N	N	N	N
12	AUTO START	ON/OFF	ON	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON	ON	ON	ON
13	DIAL PREFIX	OFF/(max. 4 digits)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0...	OFF	OFF	OFF	0...	0...	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
14	IT2 DETECT	ON/OFF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	ON	–	–	–	–	–	–	–

Note: User settings are possible for items without mesh (Meshed items are displayed at service bit = ON.)
The contents of tables are subject to change by the requests of OEM comanies and customers without notice.

Table 2.9.6 Dial Parameters Settings

No.	Item	Specifications
	Dial parameters	
01	Redial tries	Switches on the re-dial times to meet the regulations of the installed country. 0 to 10 tries (in one-try steps) 1 to 5 tries for FRE.
02	Redial interval	Switches on the re-dial intervals to meet the regulations of installed country. 1 to 6 minutes (in one-minute steps) 1 to 12 minutes for FRE.
03	Dial tone detect	Selects the dial tone detection. ON/OFF selectable. ON: Enable OFF: Disable
04	Busy tone detect	Selects the busy tone detection. ON/OFF selectable. ON: Enable OFF: Disable
05	MF (TONE) or DP (Pulse)	Selects dialling by multi-frequency or dial pulse.
06	Pulse dial rate	Selects the dialling pulse rates for the line. 10 pps/16 pps/20 pps selectable.
07	Pulse make ratio	Selects pulse dial rate. 33%/39%
08	Pulse dial type	Selects pulse dial type. Normal(N)/10-N/N+1
09	MF (Tone) duration	Selects MF (Tone) duration. 75/85/100 ms selectable.
10	PBX line	Selects PBX line. ON/OFF selectable. ON: PBX line OFF: PSTN
11	Flash/Earth/Normal	Selects the PBX type to meet the exchange requirements. NORMAL/EARTH/FLASH selectable. (PBX line origination types)
12	Auto start	Enables or disables the function of dialing without pressing the START key in one-touch dial and 2-digit auto dial modes. ON: Enable OFF: Disable
13 *Rev. 2*	Access digit	Prefix dialing digits with which PBX connects the fax to the public line. OFF/max. 4digit(s) selectable. Digit: Enable OFF: Disable
14	IT2 detect (FRE only)	Selects 2nd dial tone detection ON/OFF selectable. (FRE only) ON: Enable OFF: Disable

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2.9.10 Off-line Tests

(1) Purpose

Activate self-diagnosis which includes:

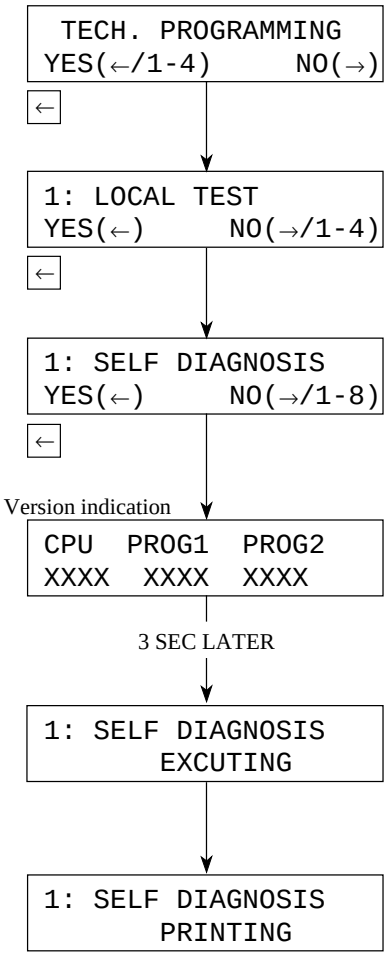
- Print test
- CPU-ROM version printing
- CPU-RAM check
- PROG version printing
- LANGUAGE version printing
- DEFAULT version printing
- RAM check
- RAM check (memory board: optional)
- PC-I/F version printing (optional)

(2) Procedure

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in memory)
- Press [←] key.
- Press [←] key.
- Press [←] key for cheking and test printing. (An example of printed data is shown in Figure 2.9.4)

The display shows:



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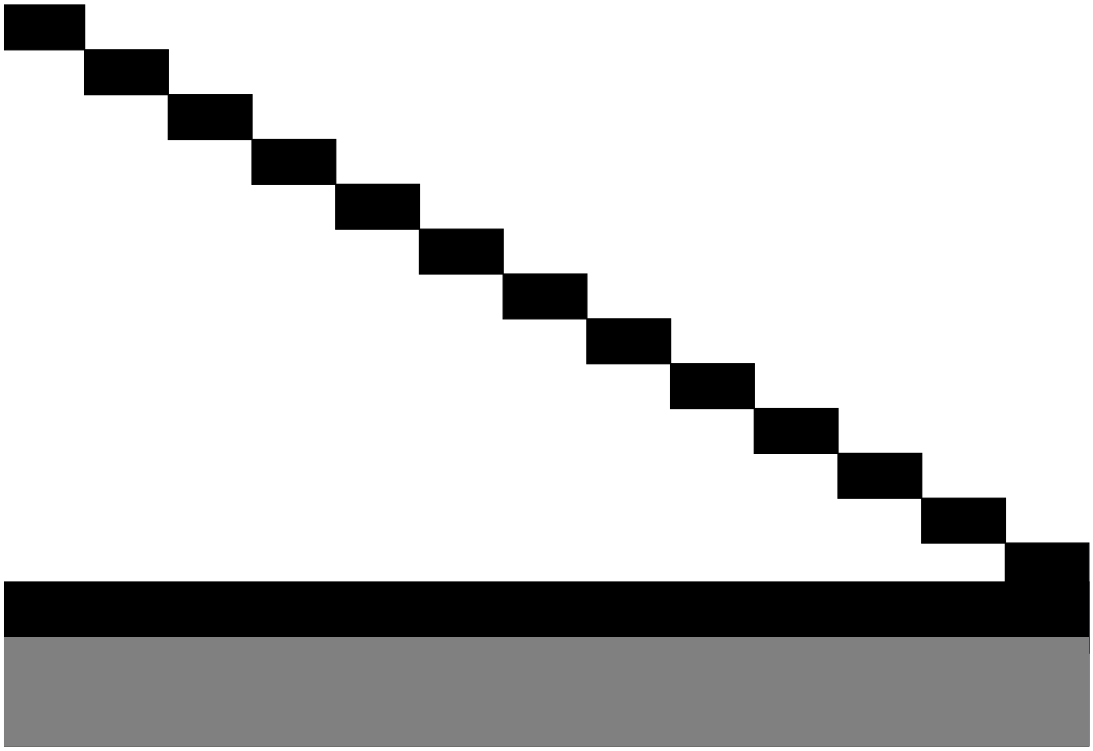

```
   CPU-ROM  VERSION  AA00
            HASH     OK   DACD
   CPU-RAM           OK
   PROG1    VERSION  AA00
            HASH     OK   3142
   PROG2    VERSION  AA00
            HASH     OK   1234

   LANGUAGE VERSION  LL10
            HASH     OK   3F06
   DEFAULT  VERSION  DD10
            HASH     OK   A683
*1 RAM1              1M   OK
*2 RAM2              OK
*3 OPT-RAM1          1M   OK
*3 OPT-I/F           PARALLEL
   DEFAULT TYPE      01   07/01/96



*1 marked item is shown for condition of all RAM except EXCEED RAM.
*2 marked item is shown to SRAM for EXCEED.
*3 marked items are option.
```

Fig. 2.9.4 Printed Data of Self-diagnosis Print Test (Example)

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2.9.11 On-line Tests

1. Transmission

(1) Load documents

(2) Make sure that

- The loaded documents are fed in automatically.
- The STD and NORMAL lamps light.
- The display shows SELECT LOCATION.

(3) Dial the telephone number of the remote machine by the ten-key pad.

(4) Make sure that the telephone number of the remote machine is shown on the display.

(5) Press the START button.

(6) Typical message transmission flow is described in Figure 2.9.5.

2. Reception

(1) Use another machine for dialling.

(2) Make sure that

- The display shows AUTO REC. START.
- The message is automatically received.

(3) Typical message reception flow is described in Figure 2.9.6.

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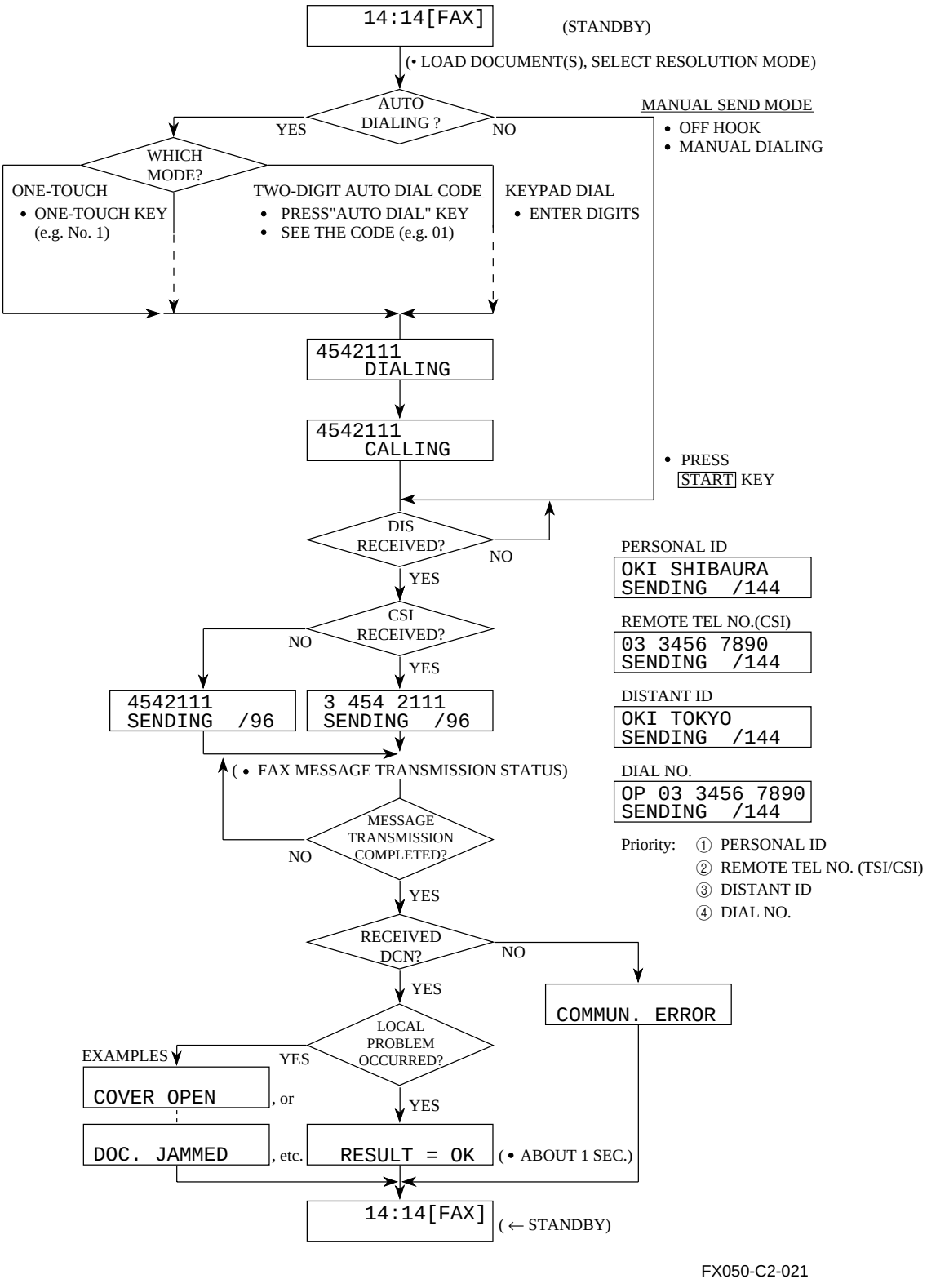

Fig. 2.9.5 Typical Transmission Flow

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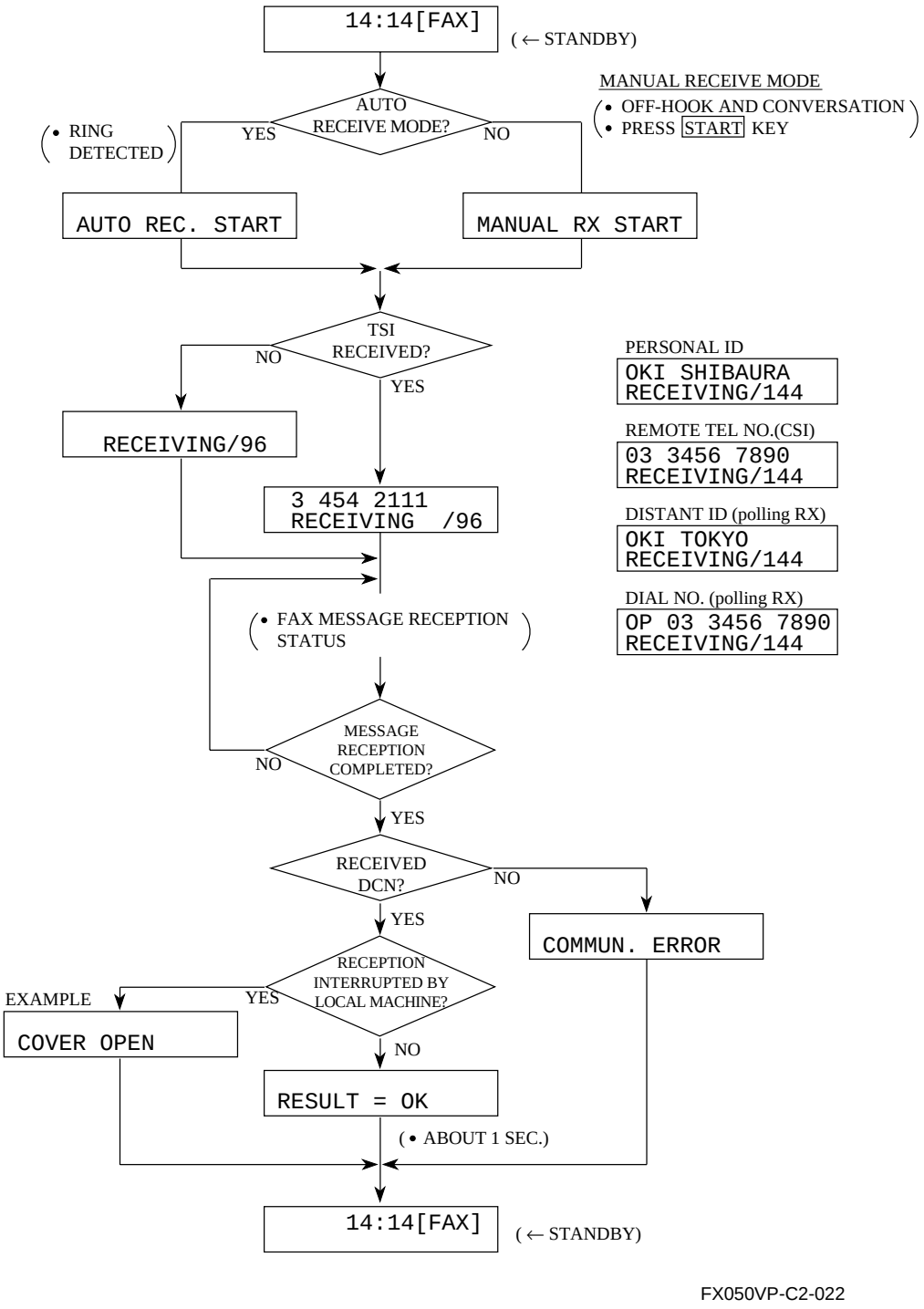

Fig. 2.9.6 Typical Reception Flow

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C. Installation of Optional Units

(1) Items

- Memory board
- PC interface board
- Telephone handset
- Second paper cassette unit (OKIFAX 5000 series)

(2) Procedure

- Turn the facsimile power switch OFF and remove the AC power cord.

  Note: Unplug the AC power cord from the wall outlet first and then from the facsimile.

- Do not remove unnecessary parts.
- Since screws and small parts are likely to be lost, they should temporarily be attached to their original positions.

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1. Instllation of the memory board

- In OKIOFFICE44/OKIFAX 4100, MEM memory board can be mounted on to the connector CN13 of R44 board.
- In OKIFAX 5000 series, MEM, 1 or 2MB for OKIFAX 5000 series memory board can be mounted on to the connector CN13 of M17 board.

(1) In case of OKIOFFICE44/OKIFAX 4100

Remove Cover-rear
Remove the Cover-rear by removing the screw ①.

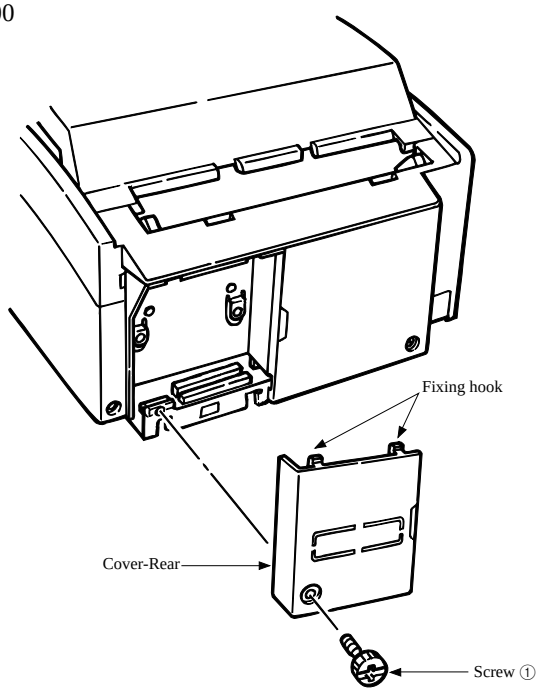

Fig. C.1.1

Install Memory Board:
First, install the memory board on to the connector CN13 of R44 board, and then tighten the two screws to the separation plate.

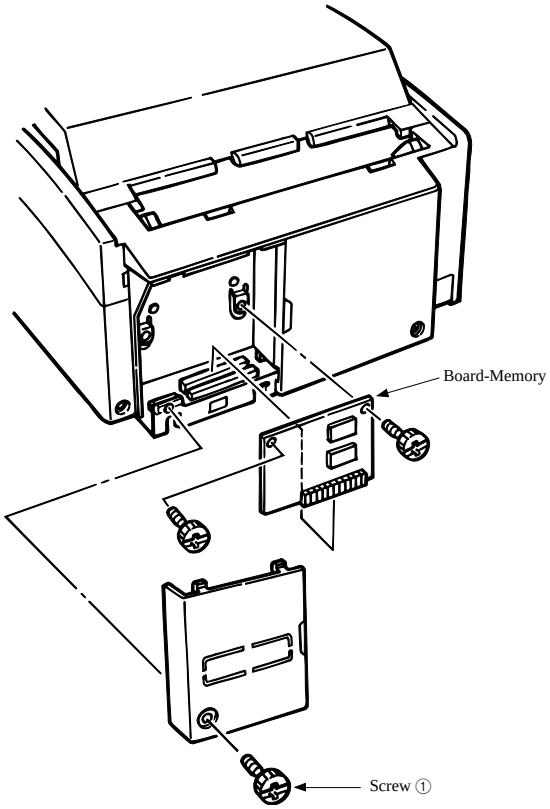

Fig. C.1.2

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(2) In case of OKIFAX 5000 series

Remove Rear Cover.
Remove the rear cover by removing the two screws (S1) and (S2).

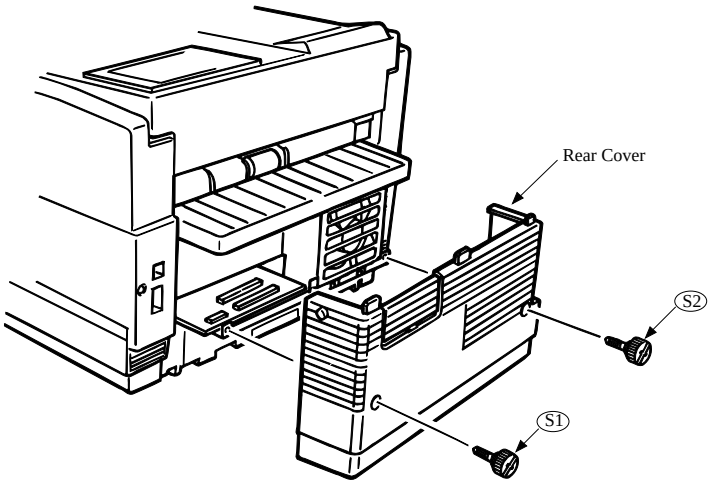

Fig. C.1.3

Install Memory Board:
First, install the memory board on to the connector CN13 of M17 board, and then tighten the screw to the separation plate.

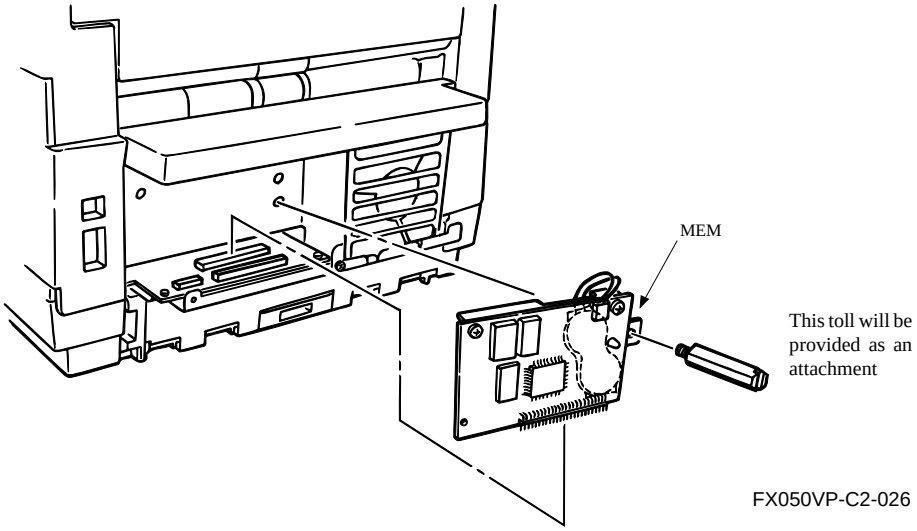

Fig. C.1.4

Note:
Fit the fixing hooks at anchor positions on the cassette guide, after that, lift the rear cover slightly and push it inward.
Tighten the two screws S1 and S2.

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2. Installation of CTR (PC interface) board

(1) In case of OKIOFFICE44/OKIFAX 4100

Remove Cover-rear.
Remove the Cover-rear by removing the screw ①.

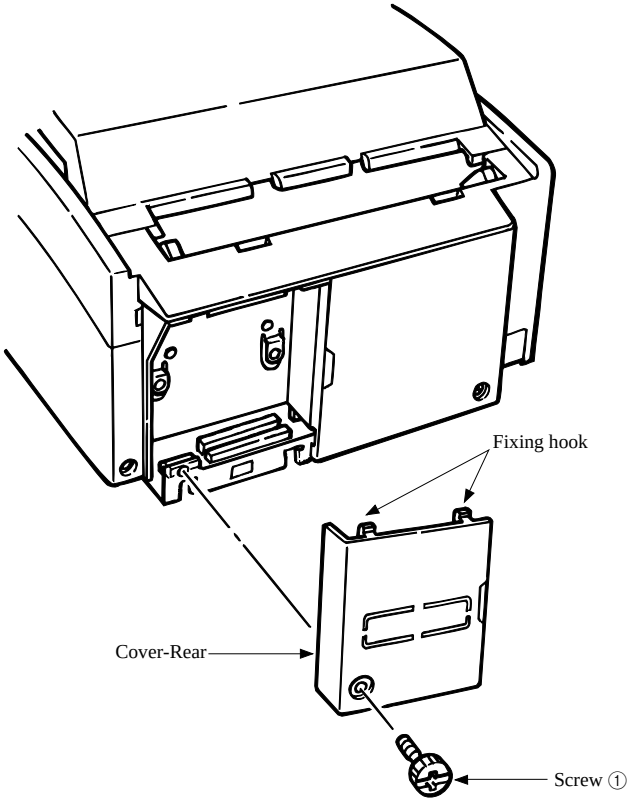

Fig. C.2.1

Install CTR board.
First, install CTR board on to the connector CN11, CN12 of R44 board, and then tighten the two screws to the separation plate.

Push fit the plate-earth (PC I/F)

Note: Insert the tip of a cutter or nipper between the mold of Cover-Rear and cut out it.

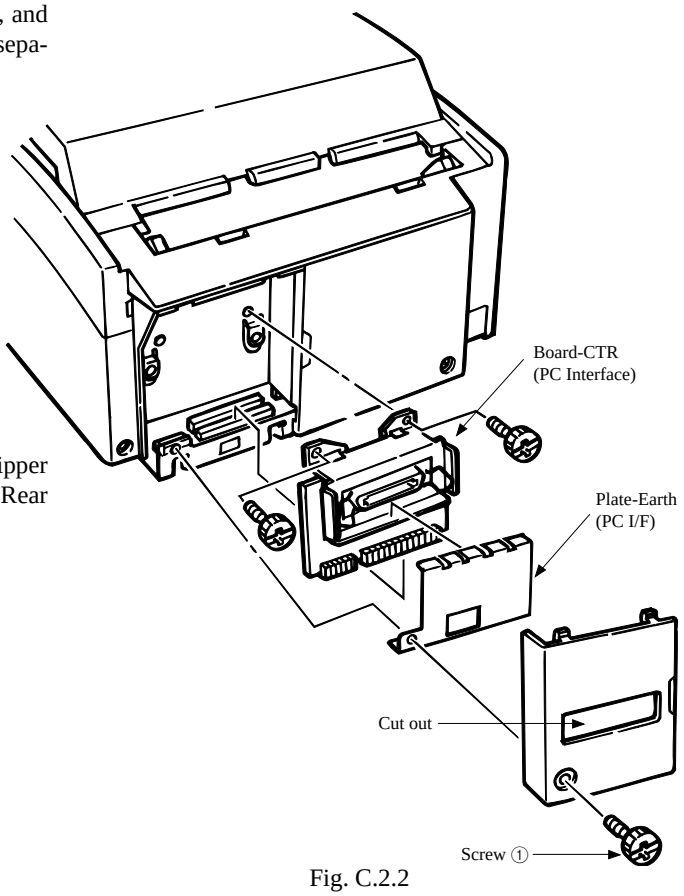

Fig. C.2.2

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(2) In case of OKIFAX 5000 series

Remove Rear Cover.
Remove the rear cover by removing the two screws (S1) and (S2).

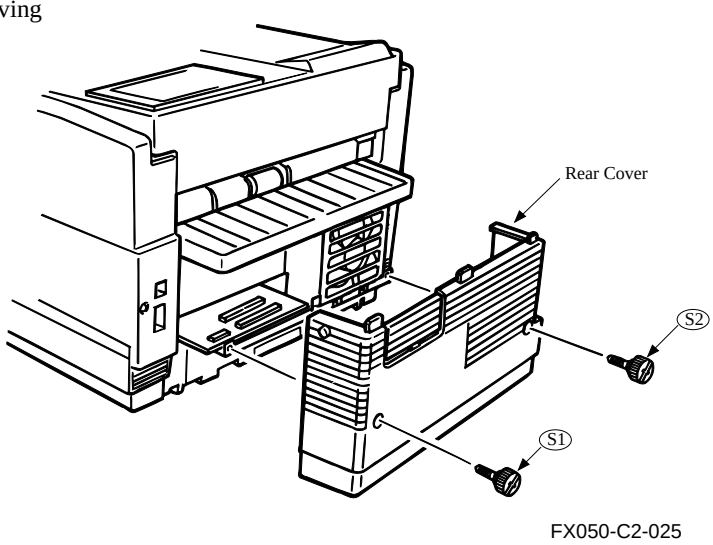

Fig. C.2.3

Install CTR board.
First, install CTR board on to the connector CN12, CN17 of M17 board, and then tighten the two screws to the separation plate.

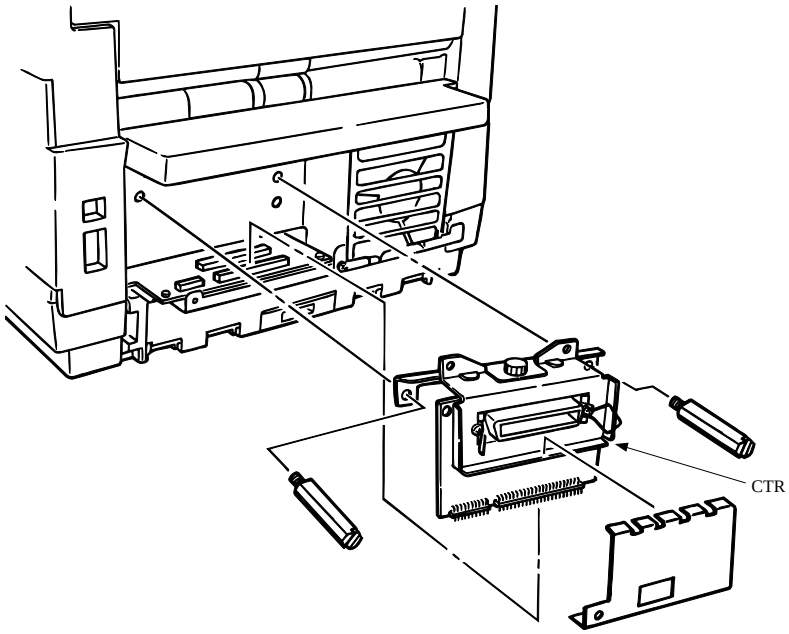

Fig. C.2.4

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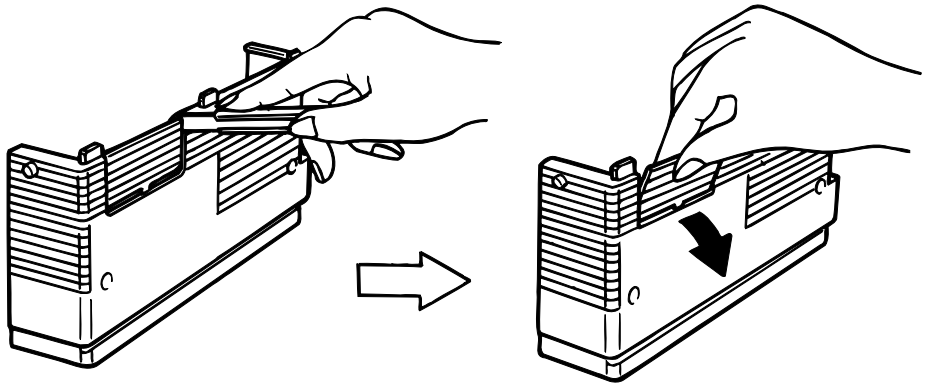

a) Insert the tip of a cutter or Nipper between the mold of Rear Cover and cut out it.

Note: Be careful not to rotate the cutter or Nipper, since this can cause scratching on the Rear Cover.

b) Grasp the mold of Rear Cover, and rotate it up and down until you can able to easily remove it.

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3. Installation of an optional telephone set (Rev. 3)

(1) Dial Mode Setting (For TEL-UK)

Set the DIAL MODE slide switch on the rear side of the telephone set according to the dial mode of the connecting line. (Set to MF for UK, Norway, Denmark, Belgium and Italy)

(2) Ringer Volume Setting (For TEL-UK and TEL-S)

Set the VOL slide switch on the rear cover side of the telephone set for the ringer sound volume.

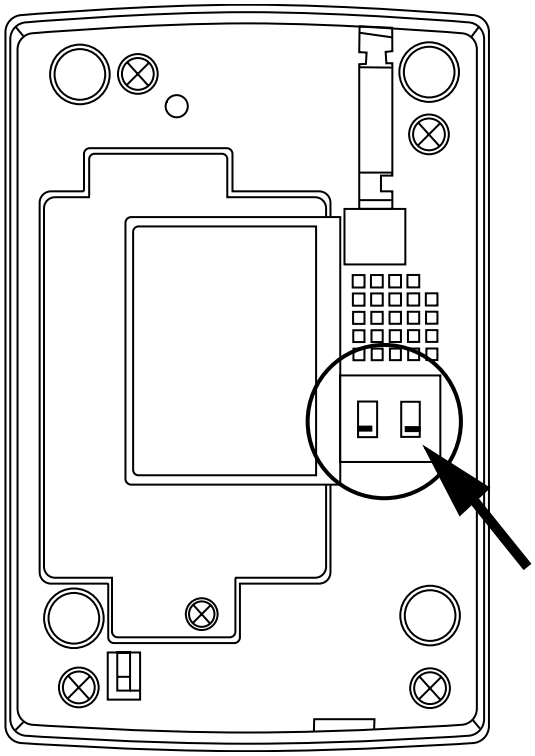

Fig. C.3.1

(3) After having taken out the telephone set, telephone handset and curled cord from the carton box, connect them as show in Fig. C.3.2.

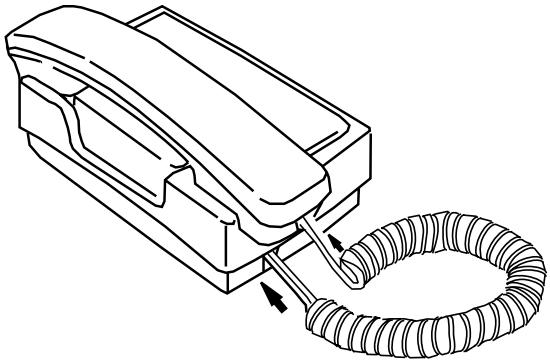

Fig. C.3.2

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(4) After installing the connection cable to the telephone set, extend the connection cable like Fig. C.3.3.

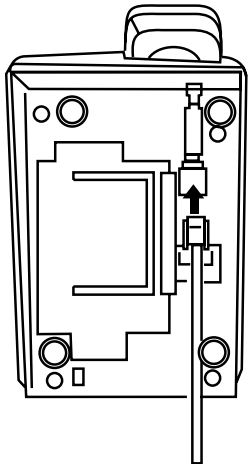

Fig. C.3.3

(5) After installing the cradle assembly to the telephone set, fix the screw like Fig. C.3.4. (OKIFAX 5000 series)

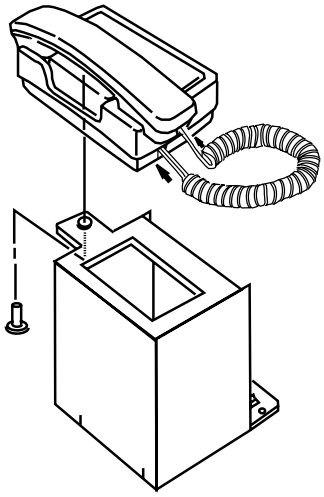

Fig. C.3.4

(6) Install the telephone assembly on the facsimile transceiver unit. In this case, cram the telephone assembly into the position of Fig. C.3.5 by lifting the facsimile transceiver unit slightly. When 2'nd tray is mounted on the facsimile transceiver unit, install the telephone assembly in the position of Fig. C.3.5. (OKIFAX 5000 series)

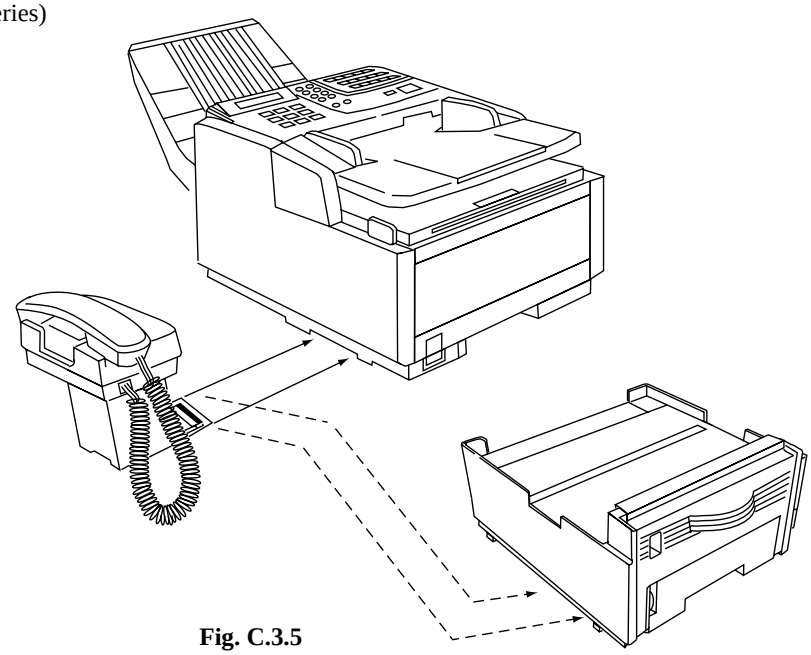

Fig. C.3.5

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(7) Connect the terminal on the other side of the connection cable formed on the rear side of the equipment (TEL1), like Fig. C.3.6, to the telephone set.

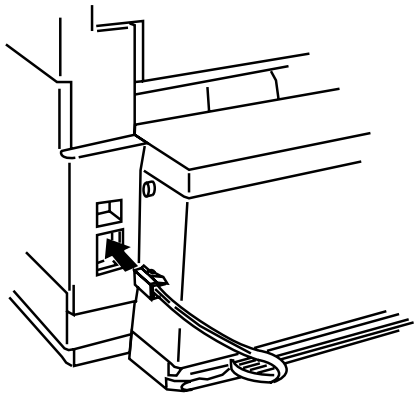

Fig. C.3.6

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2) Second Paper Cassette Unit (Rev. 3)

This item explains how to install the Second Paper Cassette Unit option for the OKIFAX 5000 series Facsimile Transceivers.

Second Paper Cassette Unit installation

1. Turn the facsimile power switch off and remove the ACpower cord.

   Note: Unplug the AC power cord from the wall outlet first and then from the facsimile.

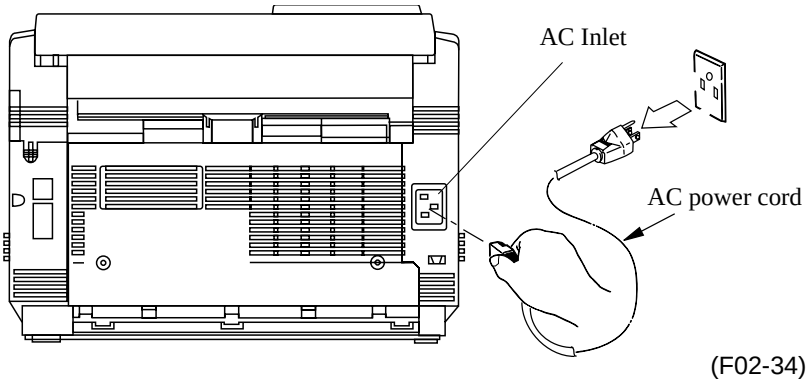

Figure C.2.1

2. Open the Manual Feed Guide.

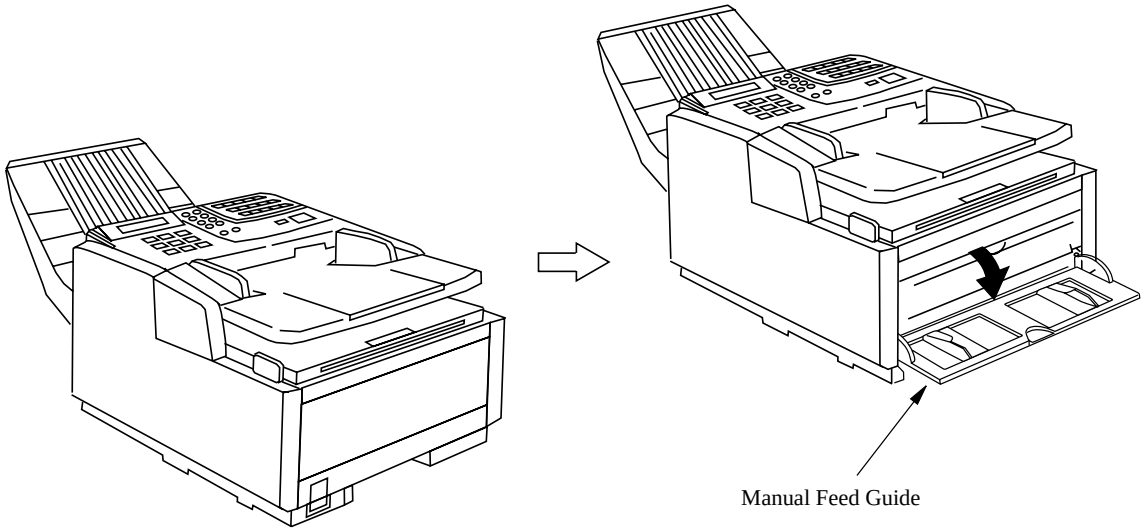

Figure C.2.2

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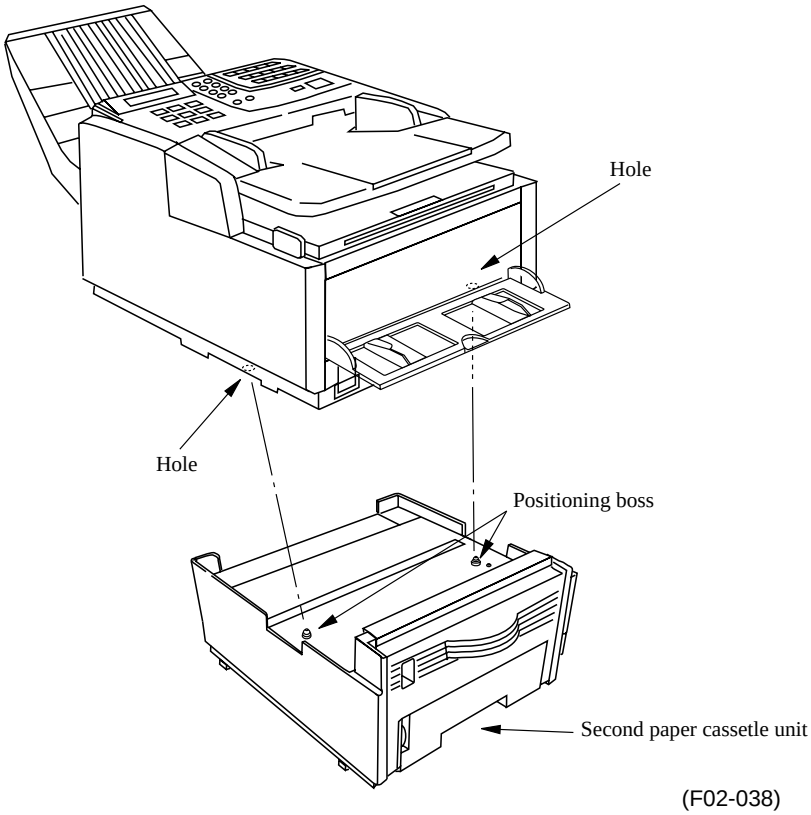
3. Gently lower the facsimile on the Second Paper Cassette Unit.

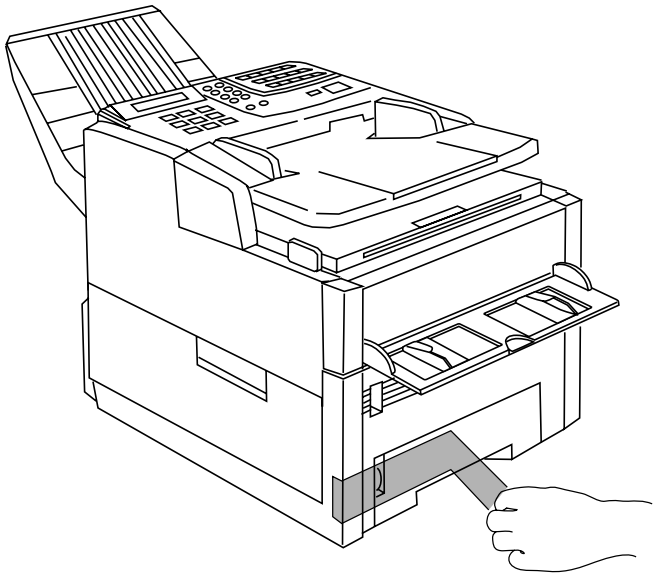
   Note: Make sure that the positioning boss of the Second Paper Cassette Unit fits into the 2 holes at the bottom of the facsimile transceiver main unit.



(F02-038)

Figure C.2.3

4. Peel off the tape attached on the Second Paper Cassette Unit.



(F02-039)

Figure C.2.4

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5. Install the Second Paper Cassette. Approximately 500 sheets of recording paper (20-Ib bond) can be loaded.

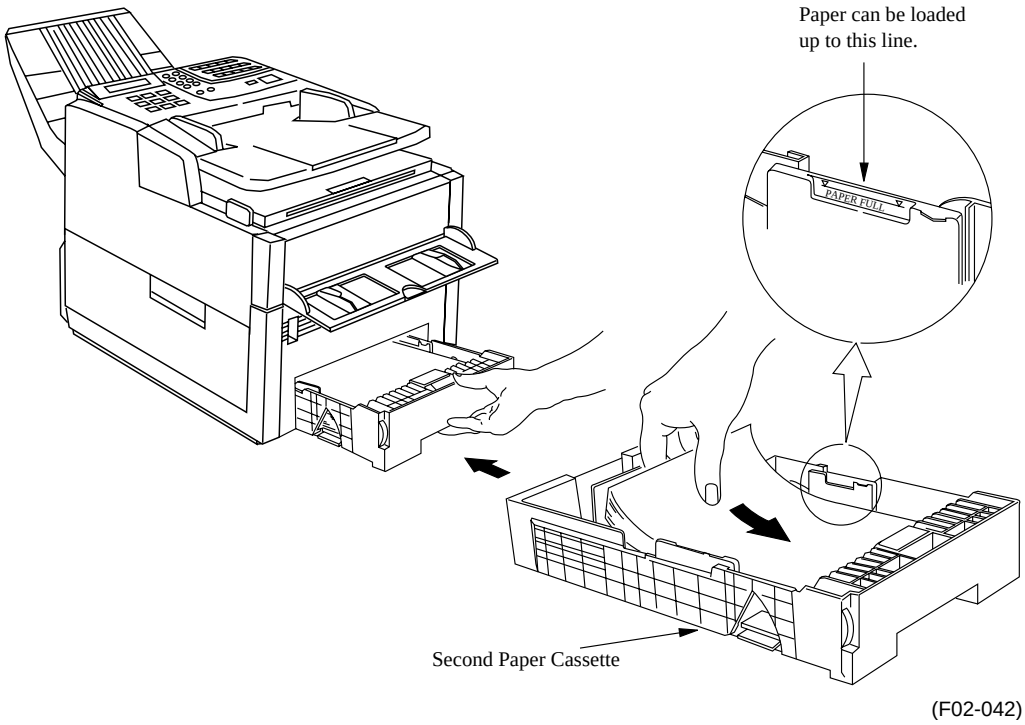

Figure C.2.5

6. Reconnect the power cord to the wall and the facsimile, and Turn the facsimile power on.

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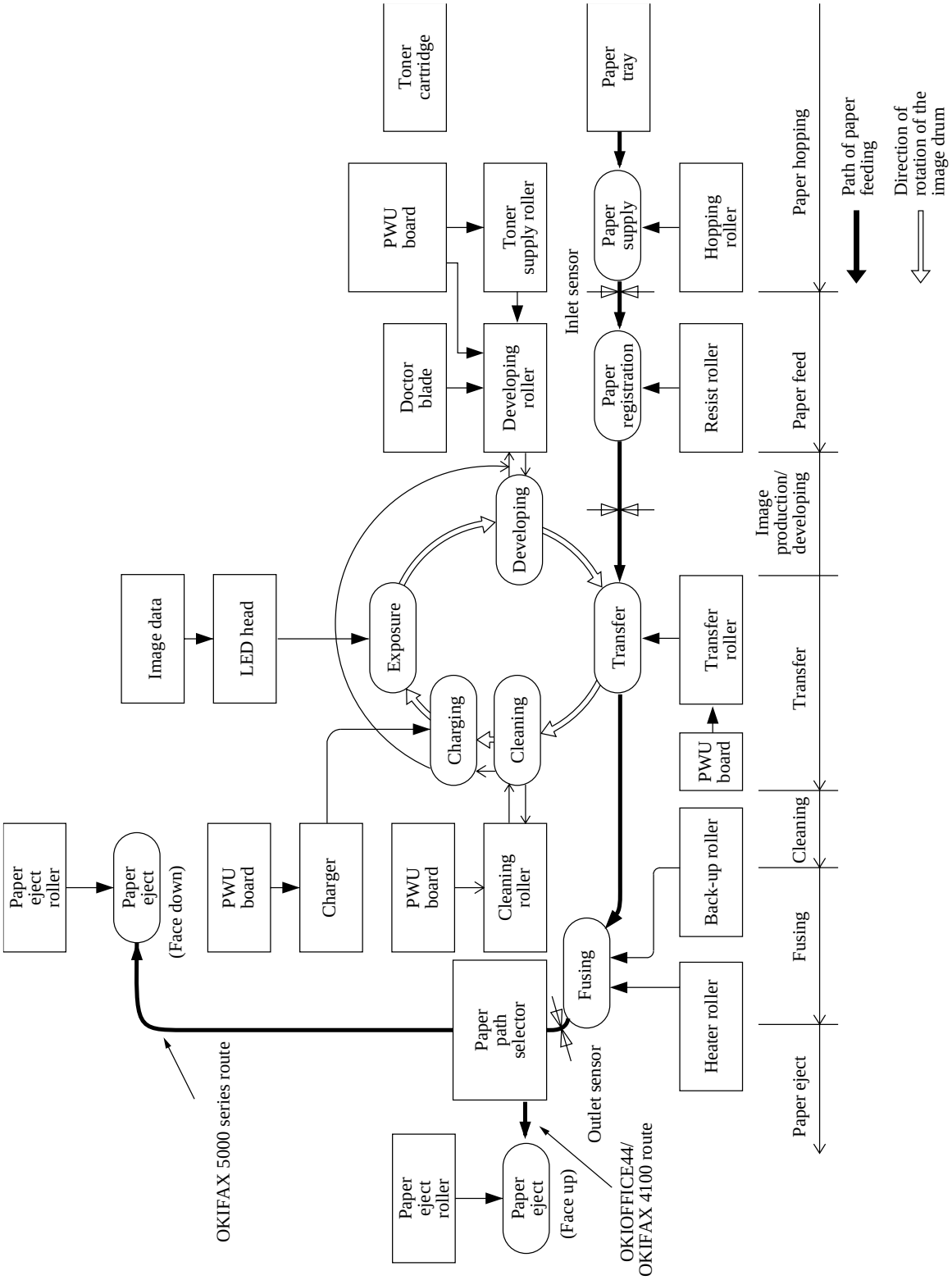
3. BRIEF TECHNICAL DESCRIPTION



Electro-photographic Process Flow

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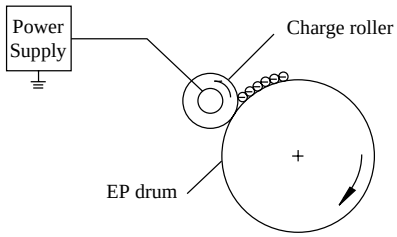
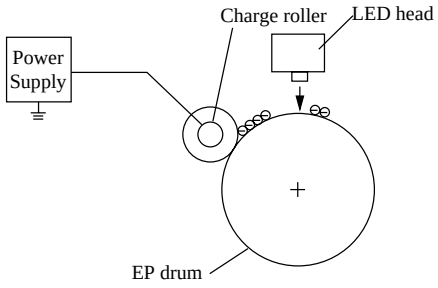
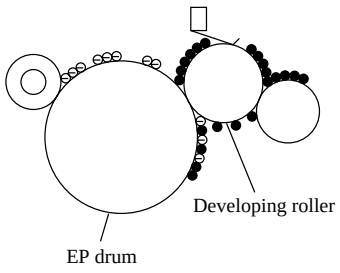
3.1 Fundamentals of the Electro-Photographic Process

The electro-photographic process involves six sub-processes:
(1) Charging (2) Exposure (3) Development (4) Transfer (5) Fusing (6) Cleaning

Outline of each process is explained below.

Process	Illustration	Description
1 Charging		The surface of the electro-photographic Image drum is uniformly charged with negative charges by applying a negative voltage to the charge roller. When the applied DC voltage exceeds a threshold value, charging of the drum begins.
2 Exposure		Light emitted from the LED head irradiates the negatively charged surface. The potential of the irradiated part of the Image drum surface is raised, so that an electrostatic latent image associated with the print image is formed.
3 Development		Toner is attracted to the exposed part (high-potential part) of the Image drum at the contact between the Image drum and the developing roller, making the electro-static latent image visible. At the same time, the residual toner on the Image drum is attracted to the developing roller by static electricity.

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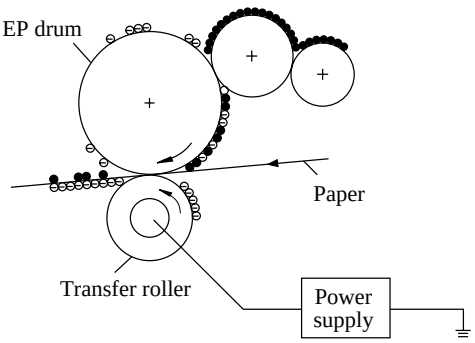
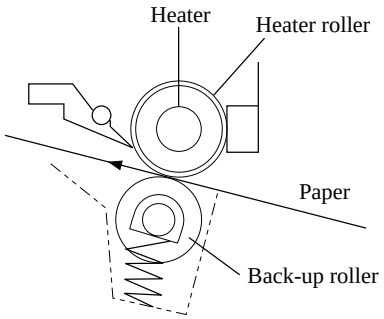
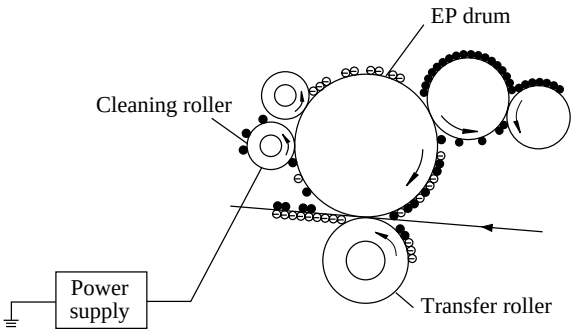
Process	Illustration	Description
4 Transfer		The recording paper is placed over the Image drum surface and a positive charge, opposite in polarity to the toner, is applied to the reverse side of the paper from the transfer roller. The toner is attracted by the positive charge and is transferred to the paper. The toner charged negative that is attracted to the Image drum surface is transferred to the upper side of the recording paper by the positive charge on the lower side of the paper.
5 Fusing		The unfused toner image is fused on the paper under heat and pressure as it passes between the heater roller and the back-up roller.
6 Cleaning		Residual toner on the Image drum is attracted to the cleaning roller temporarily by static electricity on the Image drum surface.

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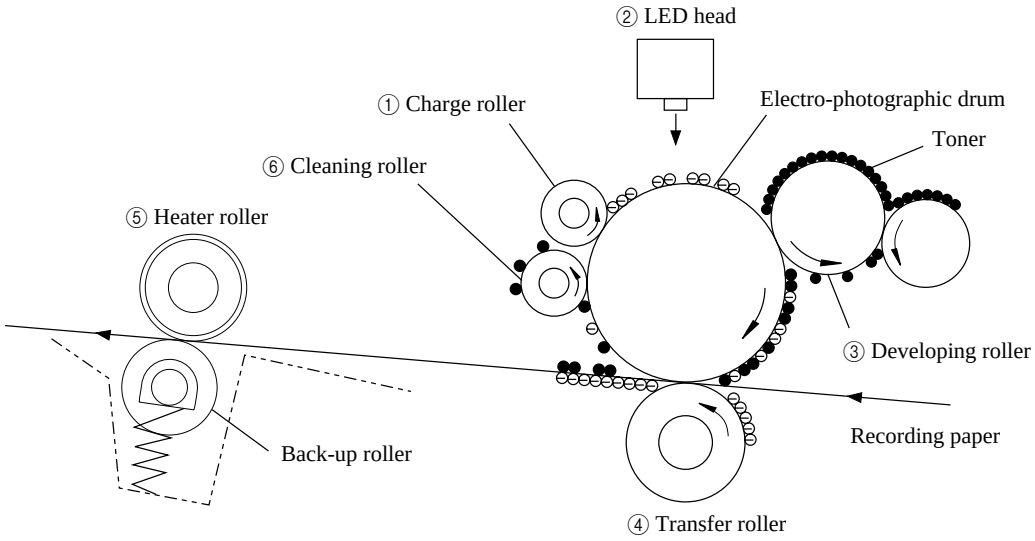
3.2 Actual Electo-photographic Process

The electro-photographic process of the OKIOFFICE44/OKIFAX 4100/5000 series consists of six essential processes.

The following Figure 3.2.1 provides a general description.



* Process:

① : Charging
② : Exposure
③ : Developing
④ : Transfer
⑤ : Fusing
⑥ : Cleaning

Figure 3.2.1 Actual EP Process

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3.3 Boards and Units

3.3.1 OKIOFFICE44/OKIFAX 4100 Boards and Units

The following five boards, Main control board, Memory board (option), Telephone interface board (option), PC interface board (option) and three units constitute the OKIOFFICE44/OKIFAX 4100 facsimile transceiver machine.

• Main control board	MCNT:	(R44)
• Network control unit board	NCU:	(UNC; WN5, DN5; FN5)
• Memory board (option)	MEM:	(MEM; 1MB)
• Telephone interface board (option)	TEL:	(TEL-U, TEL-W1, TEL-W2, TEL-W2D, NTIF, HOOK, 10 KEY,)
• PC interface board (option)	Bi-Centro I/F:	(CTR)
• Operation panel assembly unit	OPE:	(O4W)
• Power supply unit	POW UNIT:	(TLHV or OLHV, 048 POW;120V/230V)
• Printer unit		

Figure 3.3.1 shows the related drawing of OKIOFFICE44/OKIFAX 4100 facsimile transceiver.

3.3.2 OKIFAX 5000 Series Boards and Units

The following three boards, Memory board (option), Telephone interface board (option), PC interface board (option) and three units constitute the OKIFAX 5000 series facsimile transceiver machine.

• Main control board	MCNT:	(M17; OKIFAX 5000 series)
• Modem board (for OKIFAX 5500/5600)	MODEM:	(MODE; 28.8kbps)
• Network control unit board	NCU:	(UNC; WN5, DN5; FN5)
• Memory board (option)	MEM:	(MEM; 1/2MB for OKIFAX 5000 series)
• Telephone interface board (option)	TEL:	(TEL-U, TEL-W1, TEL-W2, TEL-W2D, NTIF, HOOK, 10 KEY,)
• PC interface board (option)	Bi-Centro I/F:	(CTR)
• 2nd tray interface board (option)	2ND TRAY I/F:	(TQSB)
• Operation panel assembly unit	OPE:	(O5W)
• Power supply unit	POW UNIT:	(120/230, SPSU;120V/230V)
• Printer unit		

Figure 3.3.2 shows the related drawing of OKIFAX 5000 series facsimile transceiver.

Note: The contact image sensor and electromagnetically driven parts compose the so-called Scan Unit.

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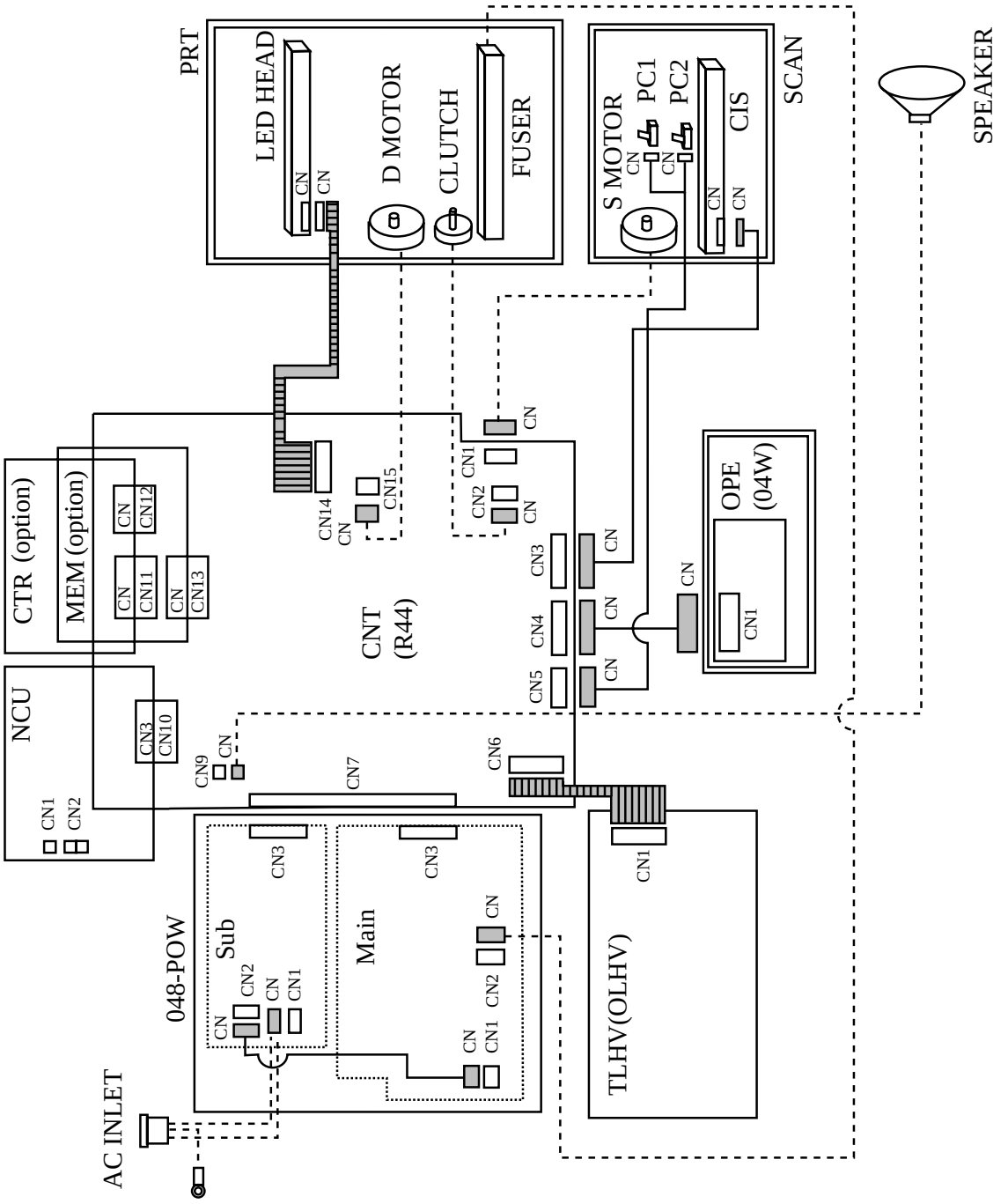

Figure 3.3.1 Related drawing of OKIOFFICE44/OKIFAX 4100

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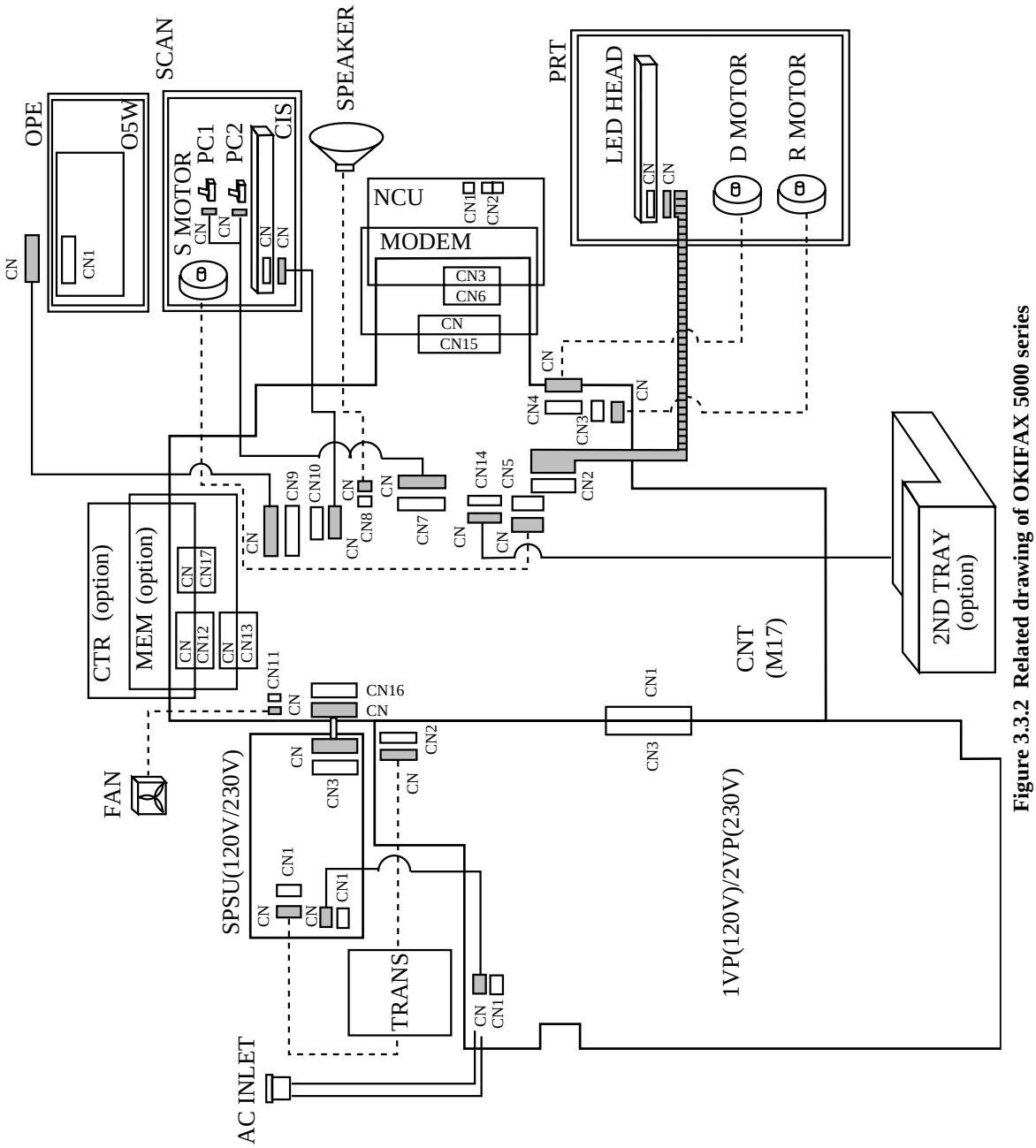

Figure 3.3.2 Related drawing of OKIFAX 5000 series

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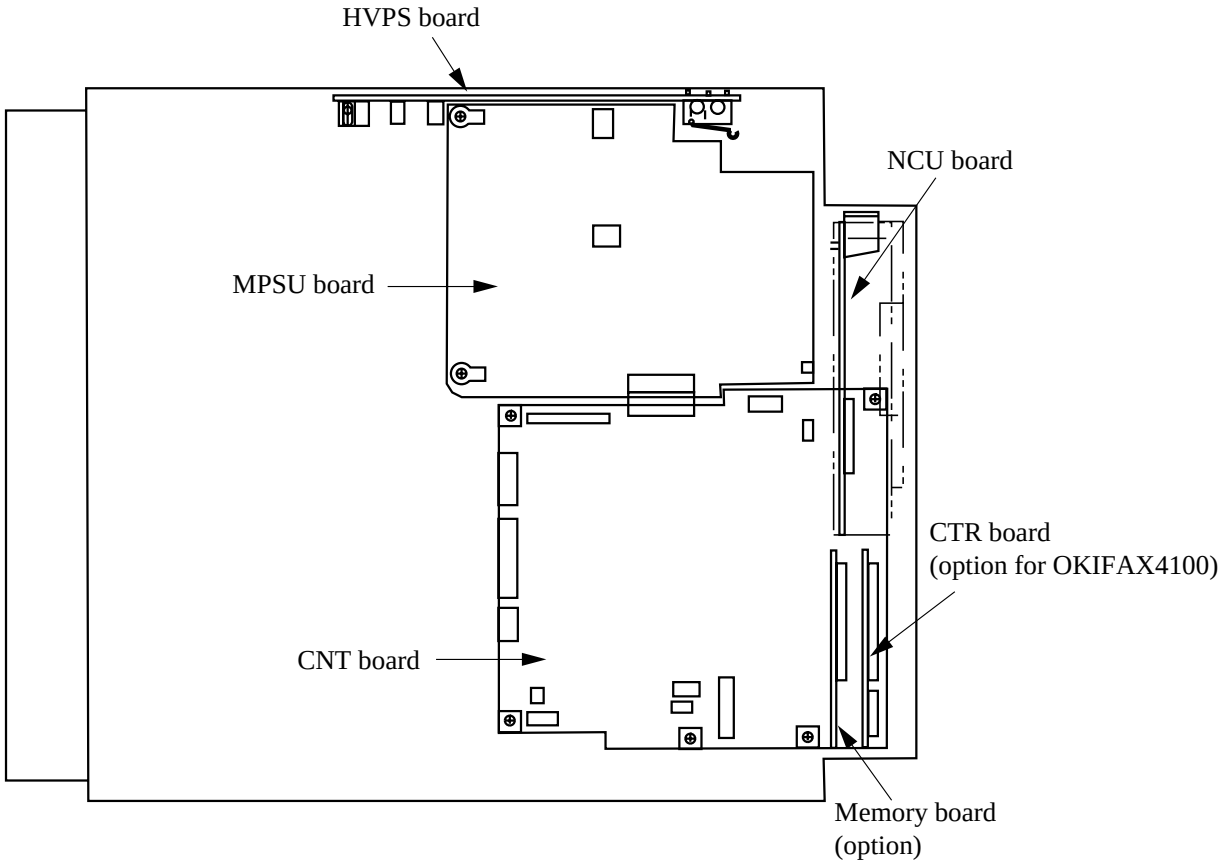
3.4 Overall Dimension and Mechanical Structure of OKIOFFICE44/OKIFAX 4100



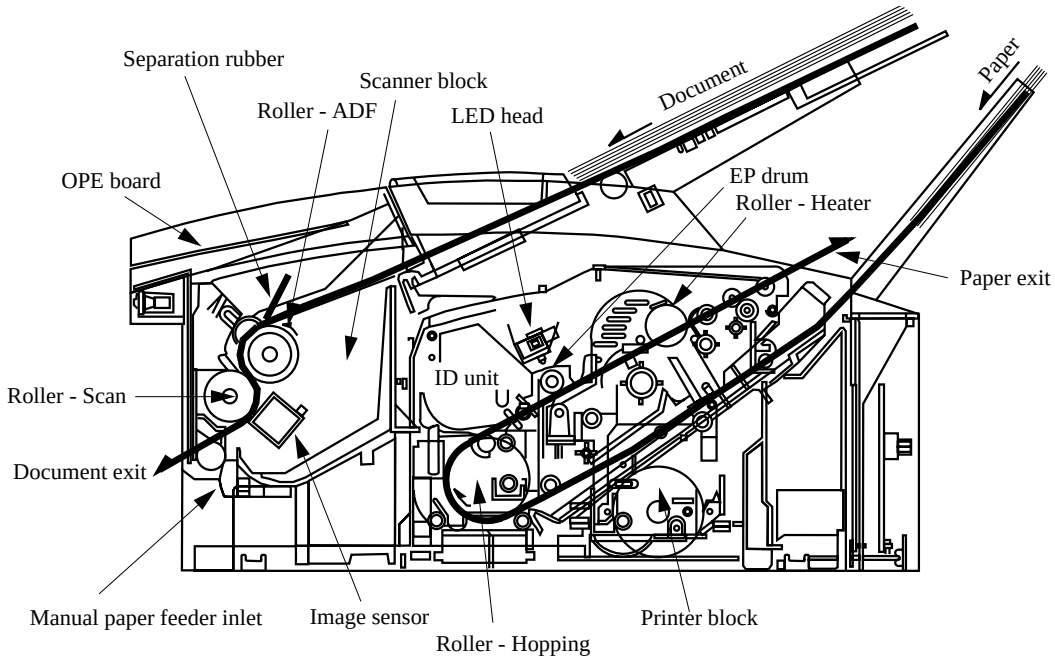


Figure 3.4.1 Overall Dimension and Mechanical Structure

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3.5 Overall Dimension and Mechanical Structure of OKIFAX 5000 series

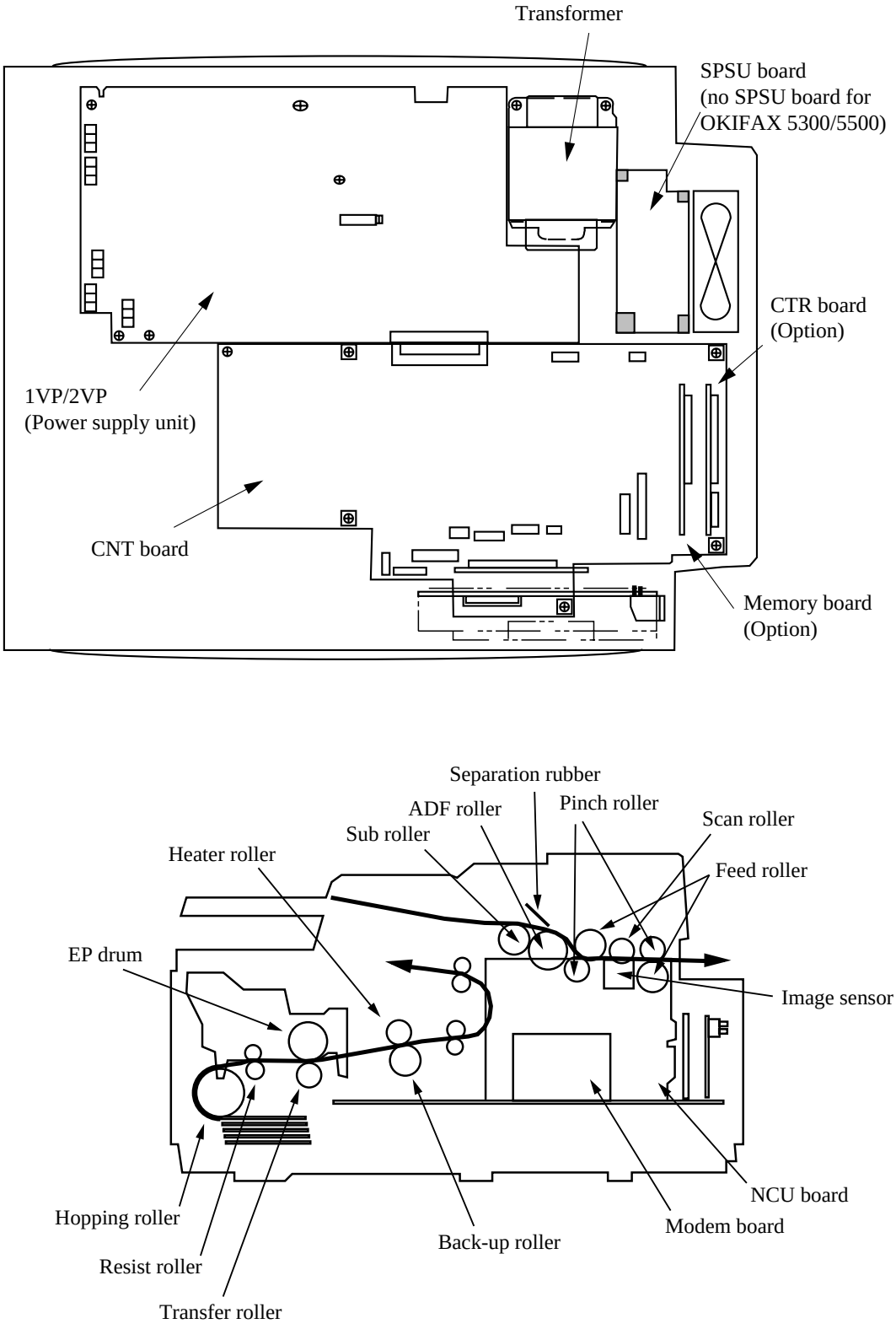

Figure 3.5.1 Overall Dimension and Mechanical Structure

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4. MECHANICAL DISASSEMBLY AND REASSEMBLY FOR OKIOFFICE44/OKIFAX 4100

This chapter explains the procedures for replacement of assemblies and units in the field.

4.1 General

4.1.1 Precautions for Parts Replacement

(1) Before starting disassembly and reassembly, always pull out the AC plug.

Note: Unplug the AC power cord from the wall outlet first and then from the facsimile.

(2) Do not try to disassemble as long as the facsimile is operating normally.

(3) Do not remove unnecessary parts: Try to keep disassembly to a minimum.

(4) When disassembling, follow the prescribed sequence. Otherwise, parts may be damaged.

(5) Since screws and small parts are likely to be lost, they should temporarily be attached to their original positions.

(6) When handling items such as printed circuit boards, do not wear gloves that are likely to generate static electricity.

(7) Using a wrist band connected to the ground will protect semiconductors on printed circuit boards from damage by the static electricity.

(8) Do not place printed circuit boards directly on the equipment or on the floor.

	Board or Part	Adjustment
(a)	NCU board (Rev.3)	DIP switches to be placed in the same position as on the removed board. Refer to Chapter 8.
(b)	LED print head	When the rank marking of the replaced LED print head (new part) is the same as that of the used LED print head (old part), you do not always have to set the LED print head strobe time by the technical function No. 27. (Refer to section 5.1) When the head label of the replaced LED print head (new part) is the same as that of the used LED print head (old part), you do not always have to set the LED print head width by the technical function No.28. (Refer to table 2.9.1, TF No.28)

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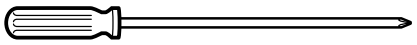
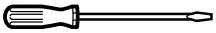
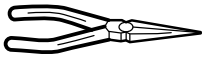
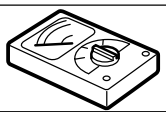
4.1.2 Tools

Table 4.1.1 shows the tools required for the replacement of parts such as circuit boards and mechanical units.

Table 4.1.1 Tools

No.	Service tools		Q'ty	Remarks
1		Philips screw driver (L)	1	
2		Philips screw driver (M)	1	
3		Flat screw drivers (S)	1	
4		Philips screw driver (S)	1	
5		Radio pliers	1	
6		Nippers	1	
7		Multimeter	1	Short-ciucuit test

4.1.3 How to Disassemble and Reassemble

This section explains how to disassemble and reassemble the fax.

- Figure 4.2 shows the disassembly procedure flow as generalization.
- The detailed disassembly procedure is explained from sub-section 4.1.3.1 to 4.1.3.18.

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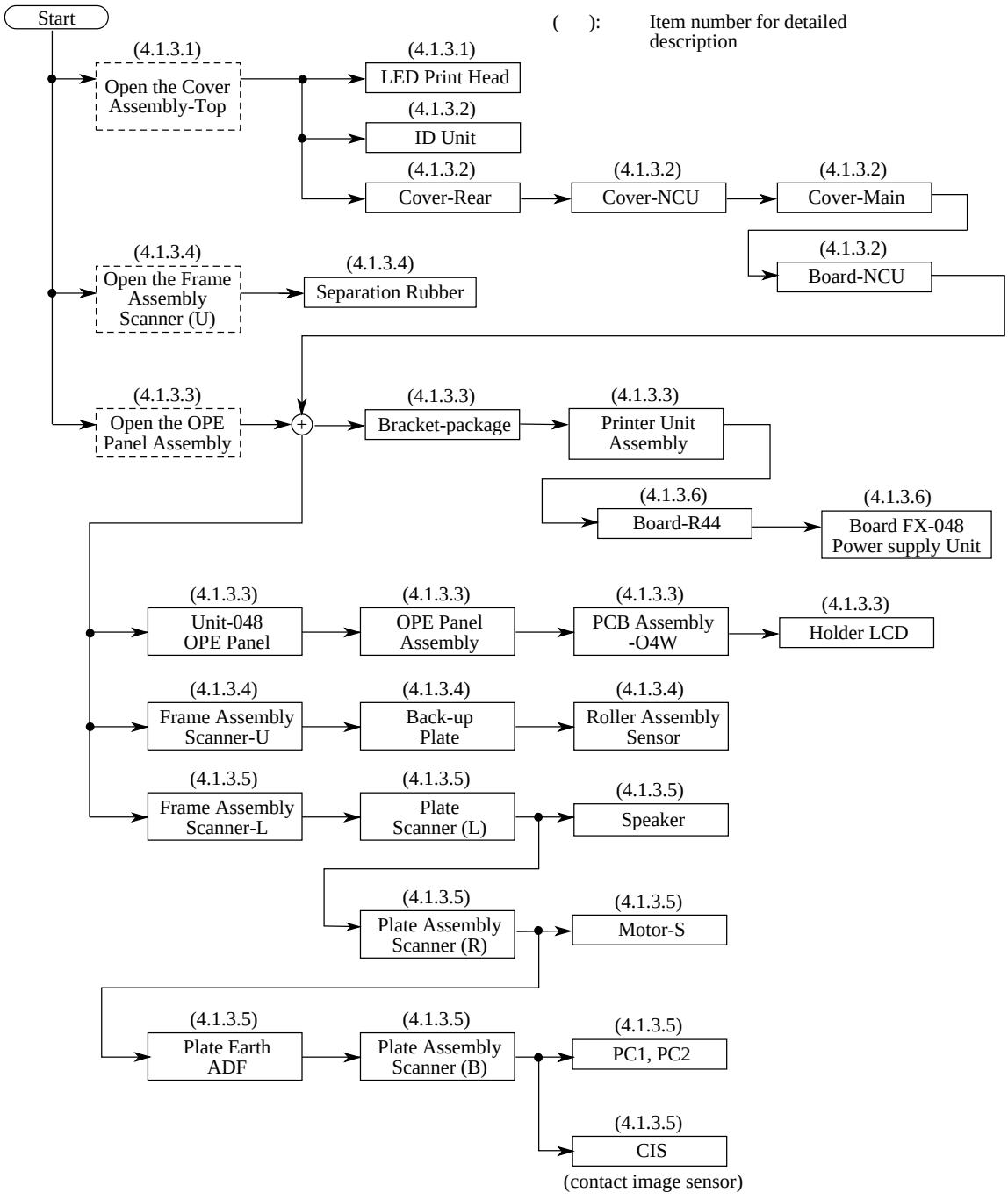

Figure 4.1 (1/2) OKIOFFICE44/OKIFAX 4100 Disassembly Procedure Flow

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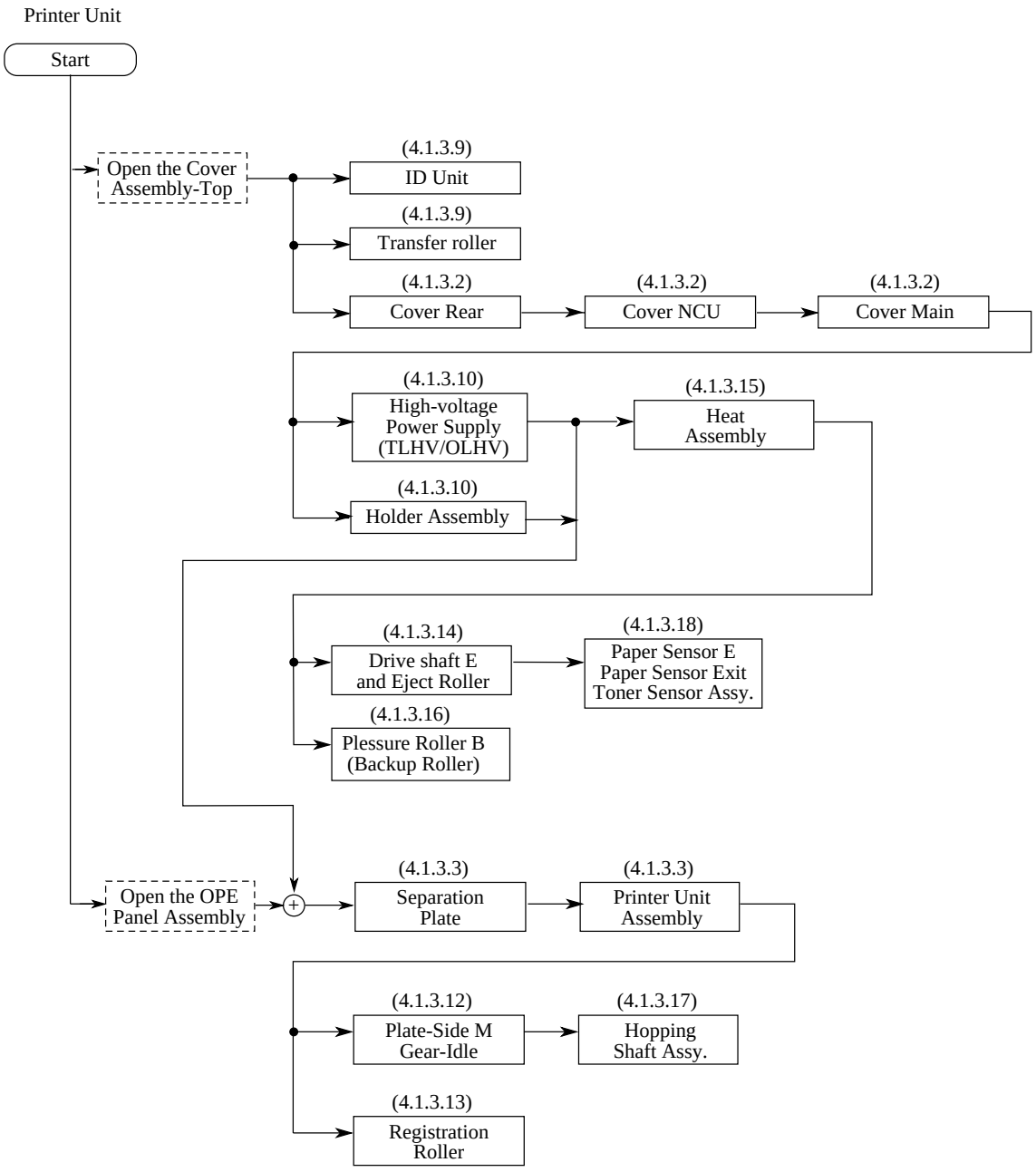

Figure 4.1 (2/2) OKIOFFICE44/OKIFAX 4100 Disassembly Procedure Flow

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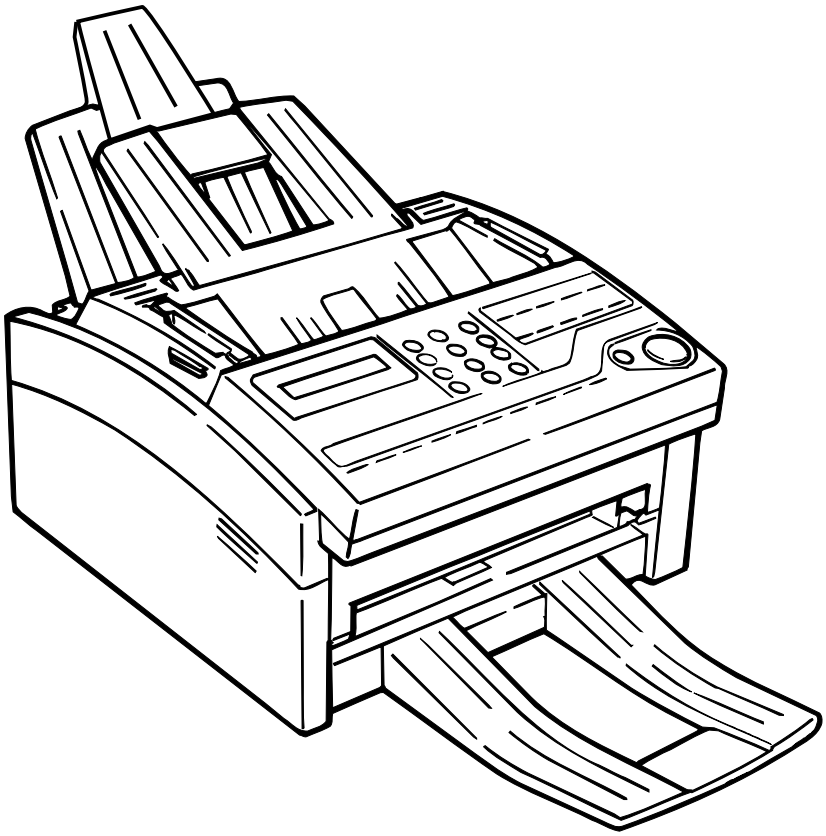
Appearance of the OKIOFFICE44/OKIFAX 4100



(FX048 CP4.1 Fig.01)

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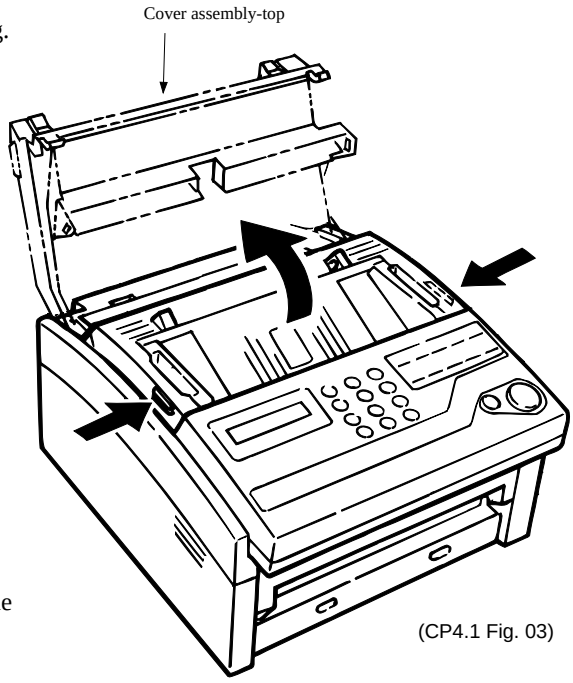
4.1.3.1 LED Print Head

It is used two kind of head as the LED print head. (208 mm width or 216 mm width)

(1) Disassembly procedure

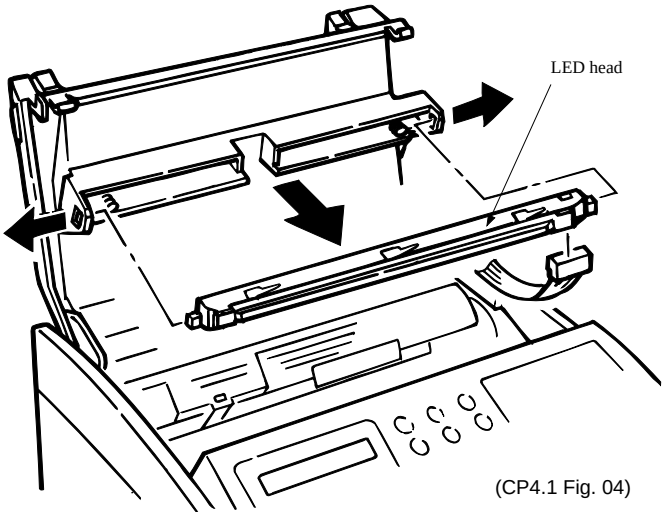
a) Open the cover assembly-top by raising.



(CP4.1 Fig. 03)

b) Disconnect the PC connector from the LED print head.

c) Remove the LED head while spreading the left clamp on the cover assembly-top.



(CP4.1 Fig. 04)

Note: Be sure not to touch directly or push the SLA part of the print head.

(2) Reassembly procedure

Reverse the disassembly procedures.

Note: After replacing the LED print head, set drive time of the LED print head following the marking. (Refer to section 5.1). When you replace the LED print head, if the width of the LED head to be used is changed from current version, you should select the head width by the service personnel initial setting. (Refer to table 3.9.1 TF No. 27 and 28)

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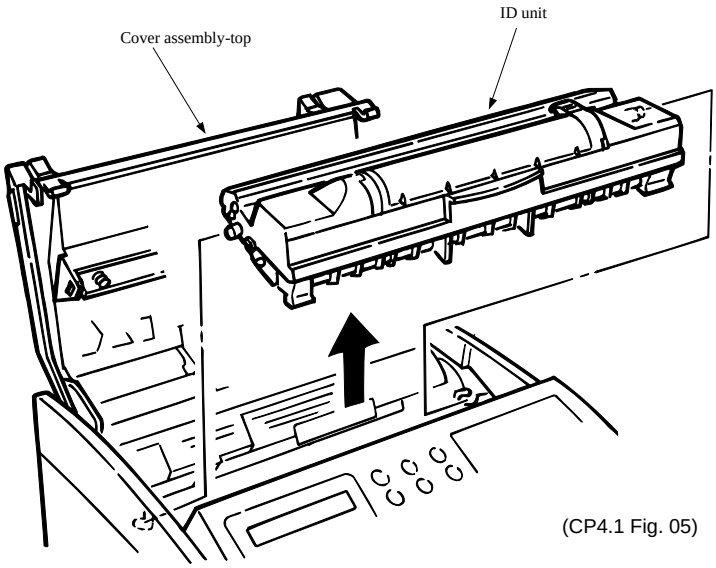
4.1.3.2 ID Unit, Rear-Cover, Cover-NCU, Cover-Main and Board-NCU

(1) Disassembly procedure

a) Open the cover assembly-top by raising.

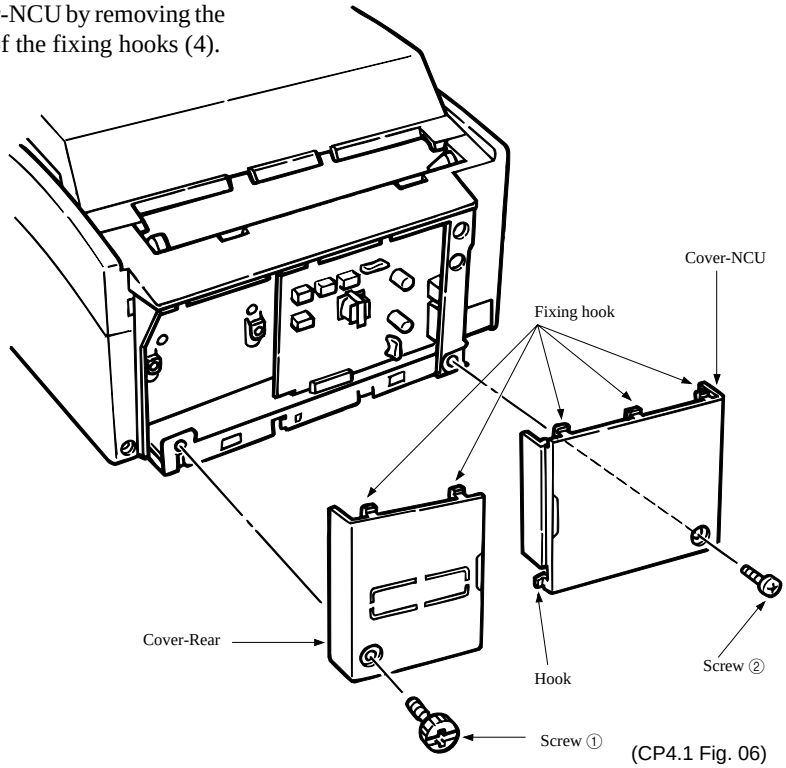
b) Take out the ID unit from the equipment.



(CP4.1 Fig. 05)

c) Cover-Rear:
Remove the Cover-Rear by removing the screw 1 and the part of the fixing hooks (2).

d) Cover-NCU:
Remove the Cover-NCU by removing the screw 2 and part of the fixing hooks (4).



(CP4.1 Fig. 06)

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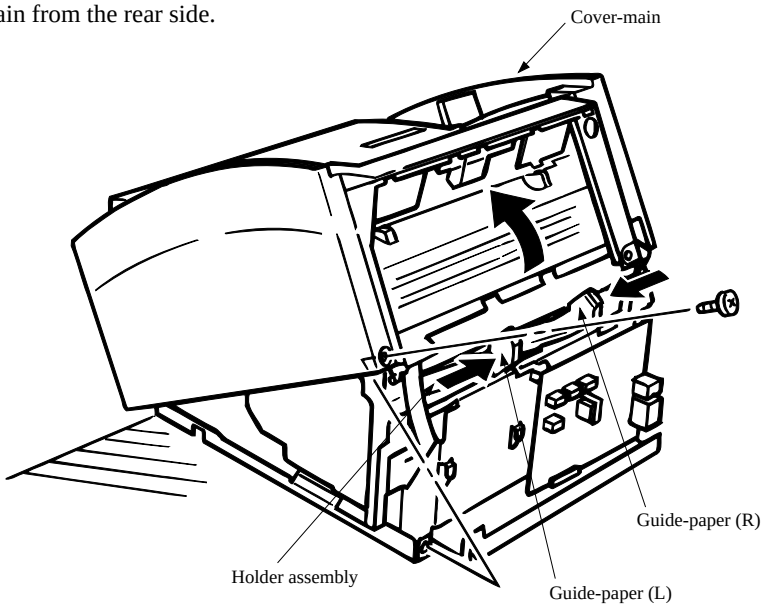
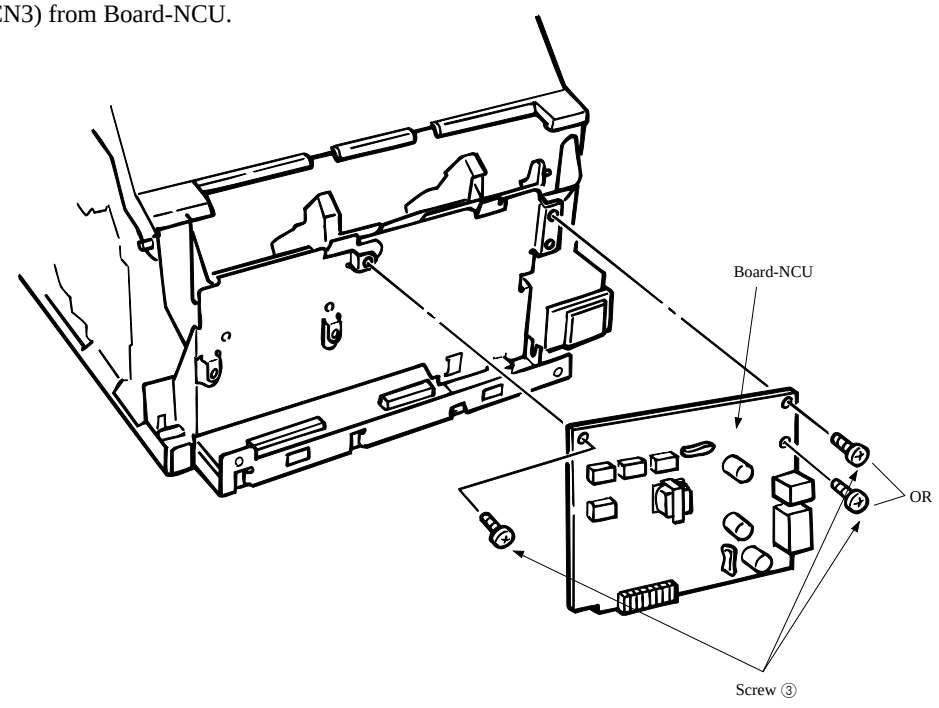
e) First, move the center of Guide-paper (L) and (R) of Holder assembly, and then, open the Cover-Main from the rear side.



(CP4.1 Fig. 08)

f) Board-NCU:
Remove the Board-NCU by removing the two screw 3 and disconnect the connector (CN3) from Board-NCU.



(CP4.1 Fig. 09)

Note: Board-NCU can be removed without removing the Cover-Main.

(2) Reassembly procedure

Reverse the disassembly procedures.

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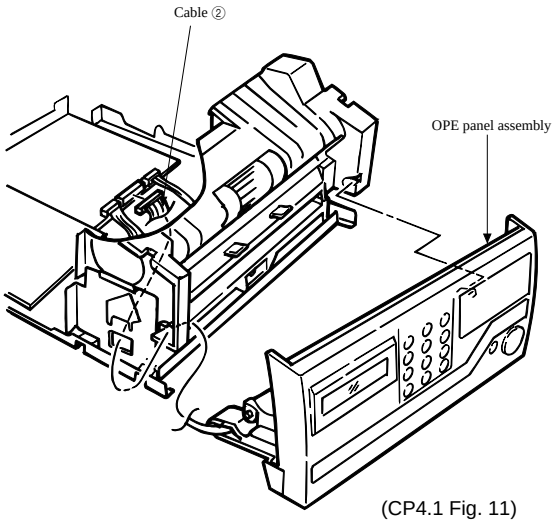
4.1.3.3 Unit-048 OPE-Panel

(1) Disassembly procedure

a) First, carry out the disassembly procedure up to the point of the 4.1.3.2 (Item (e). Cover-main).

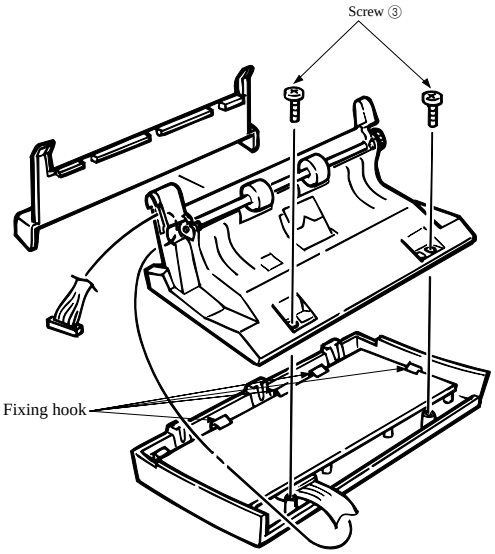
b) Dismount the Printer-Unit.
(See Section 4.1.3.19)

c) Open the OPE-panel assembly.



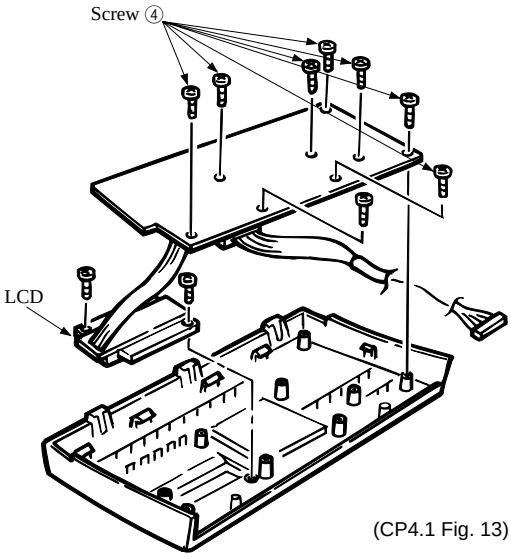
(CP4.1 Fig. 11)

d) OPE panel assembly:
Remove the OPE panel assembly by removing two screws ③, the eight screws ④ and the part of fixing hooks.



(CP4.1 Fig. 12)

e) Remove the part of LCD by removing the two screws.



(CP4.1 Fig. 13)

2) Reassembly procedure

Reverse the disassembly procedures.

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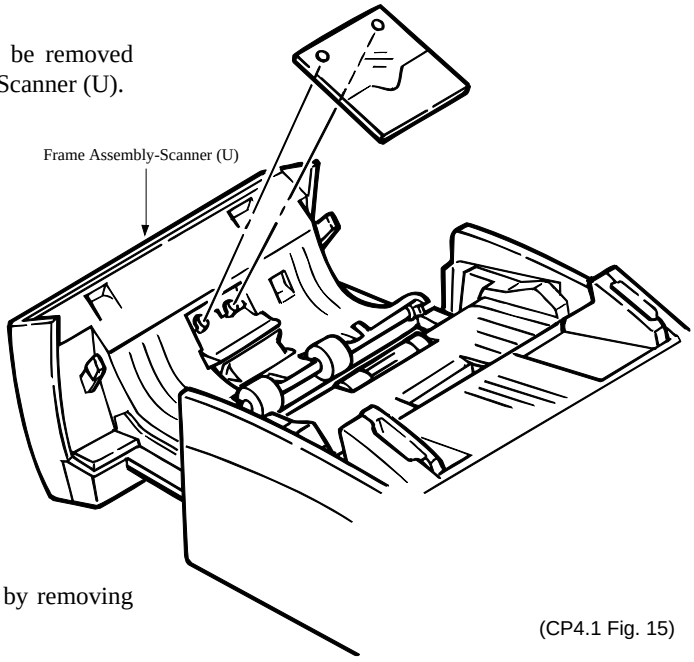
4.1.3.4 Separation Rubber, Roller Assembly Sensor

(1) Disassembly procedure

a) Separation rubber:
The separation rubber can be removed from the Frame Assembly-Scanner (U).



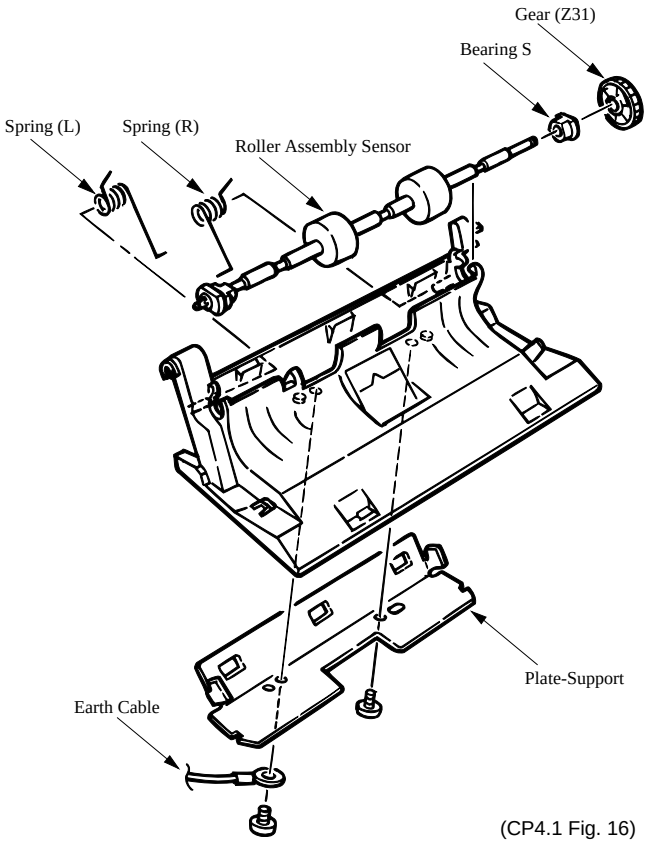
b) Roller Assembly Sensor:
Remove the Plate-Support by removing the two screws ①.

(CP4.1 Fig. 15)

Note: Just fitting to two bossess.

c) Remove the two springs (L) and (R).

d) Remove the Roller Assembly-Sensor by removing the Gear (Z31).



(2) Reassembly procedure

Reverse the disassembly procedure.

(CP4.1 Fig. 16)

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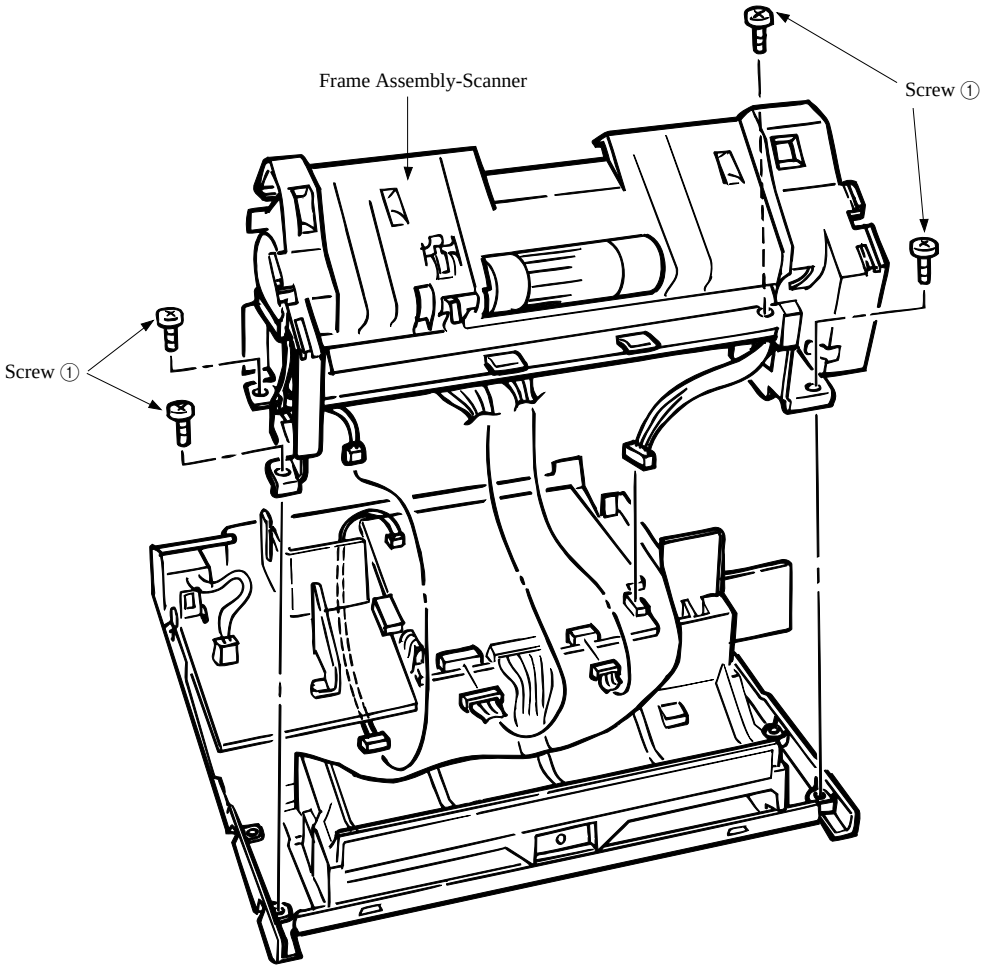
4.1.3.5 Roller Assembly-ADF, CIS (contact image sensor), Lever-PC1 and PC2

(1) Disassembly procedure

a) First, carry out the disassembly procedure up to the point of the 4.1.3.2 and 4.1.3.3.

b) Dismount the Printer-Unit.
(See Section 4.1.3.19)

c) Remove the Frame assembly-Scanner (L) by removing the four screws ① and the four connectors.



(CP4.1 Fig. 17)

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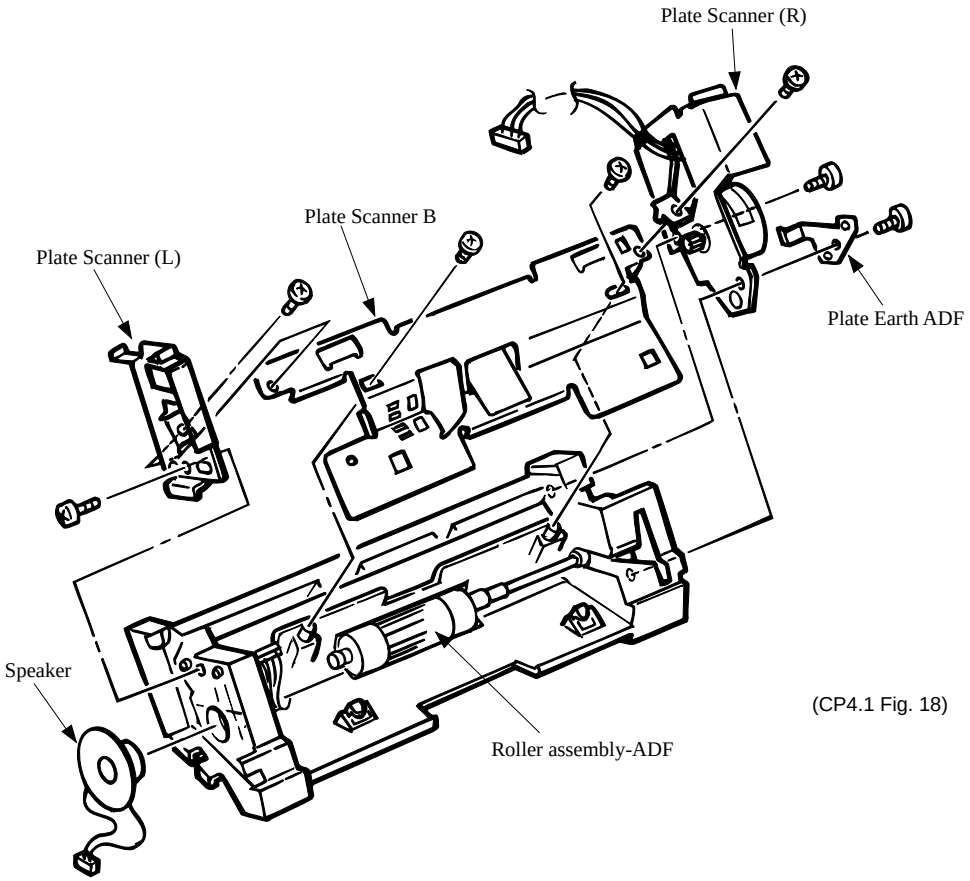
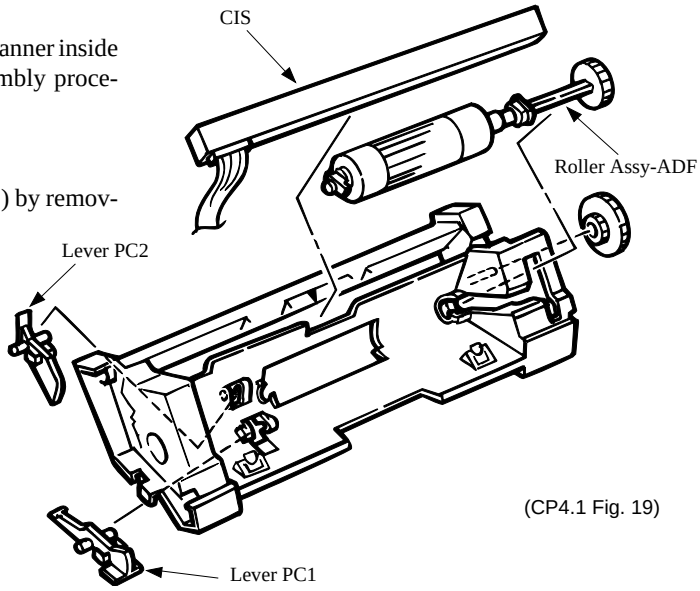


(CP4.1 Fig. 18)

d) Turn the Frame Assembly-Scanner inside out and perform the disassembly procedure.

e) Remove the Plate Scanner (L) by removing the two screws.

f) Remove the Speaker.



(CP4.1 Fig. 19)

g) Remove the Plate Assembly-Scanner (R) and Plate Earth ADF by removing the three screws.

h) Remove the Plate Scanner (B) by removing the two screws and the part of the fixing hooks.

i) Remove the CIS (contact image sensor).

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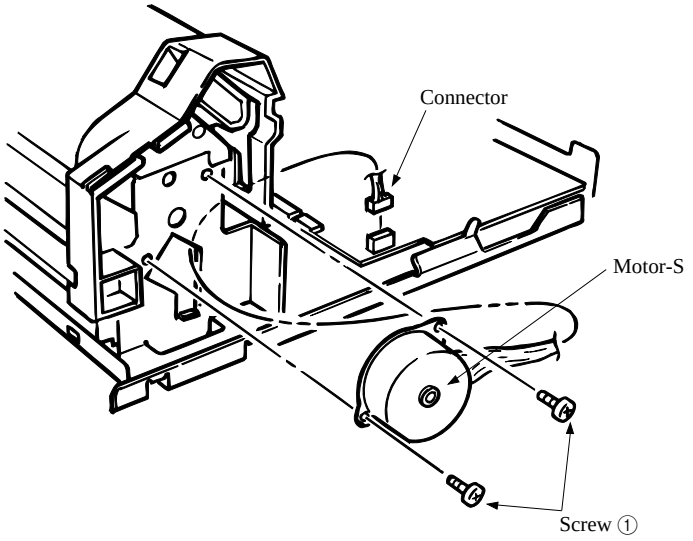
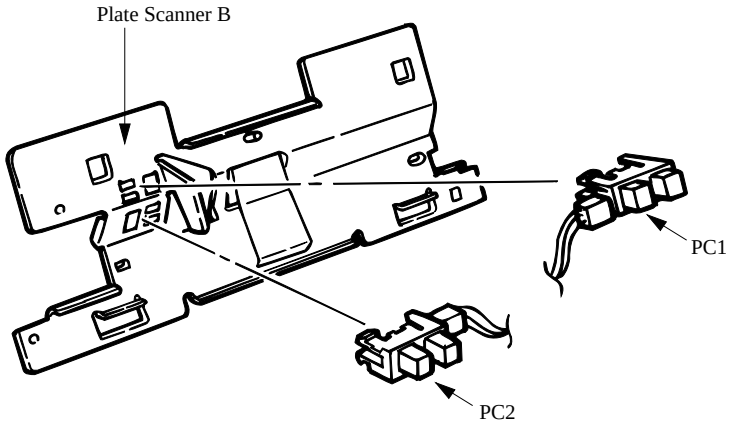
j) Motor-S:
Remove the Motor-S by removing the connector of motor and the two screws ①.



(CP4.1 Fig. 19)

k) Photo-Sensor (PC1, PC2):
After disconnecting the two connectors, remove the photo-coupler sensors PC1 and PC2 on the Plate Scanner B by pressing the latch using the flat screwdriver or like.



(CP4.1 Fig. 20)

(2) Reassembly procedure

Reverse the disassembly procedures.

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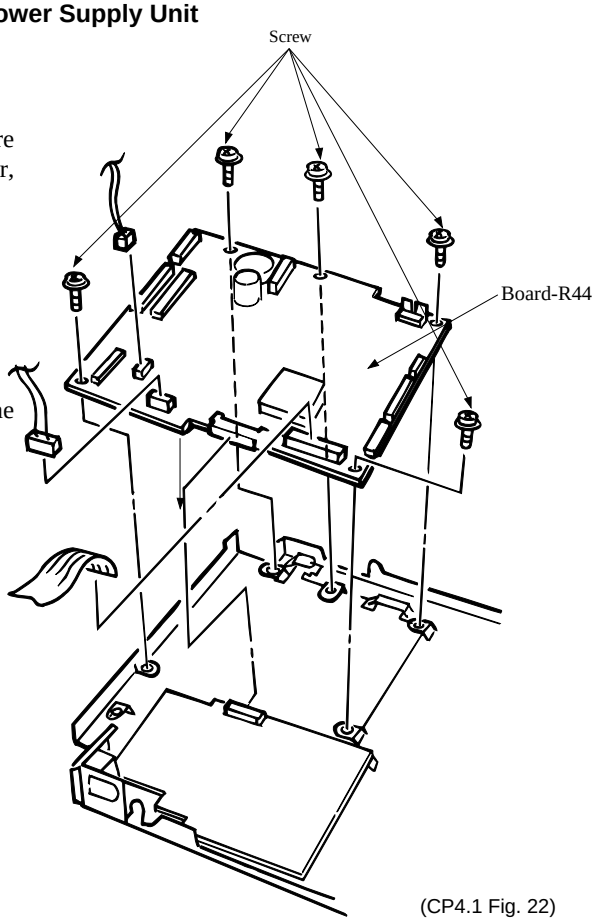
4.1.3.6 Board-R44, OKIOFFICE 44/OKIFAX 4100 Power Supply Unit

(1) Disassembly procedure

a) First, carry out the disassembly procedure up to the point of the 4.1.3.2 (Cover-Rear, Cover-Main etc.).

b) Board-R44:
Disconnect the all connectors.

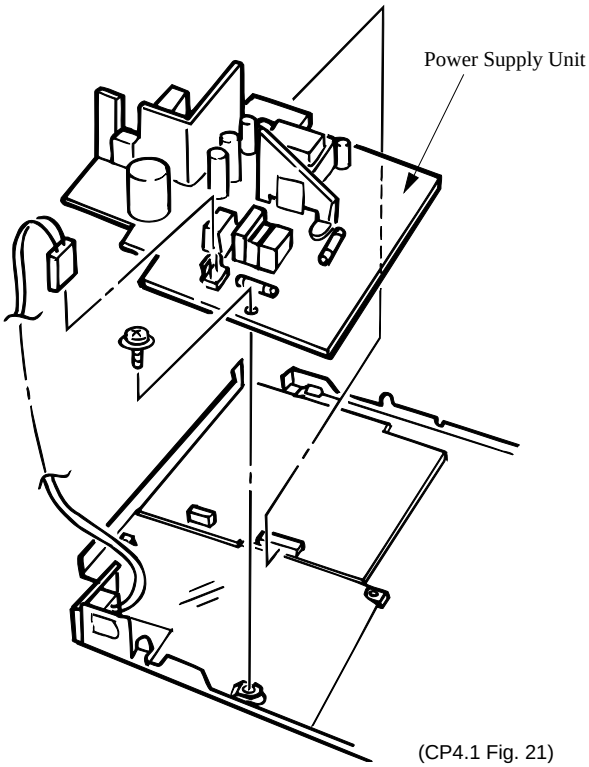
c) Remove the Board-R44 by removing the five screws.



(CP4.1 Fig. 22)

d) OKIOFFICE 44/OKIFAX 4100 Power Supply Unit:
Disconnect the all connectors.

e) Remove the OKIOFFICE 44/OKIFAX 4100 Power Supply Unit by removing the screw.



(CP4.1 Fig. 21)

(2) Reassembly procedure

Reverse the disassembly procedures.

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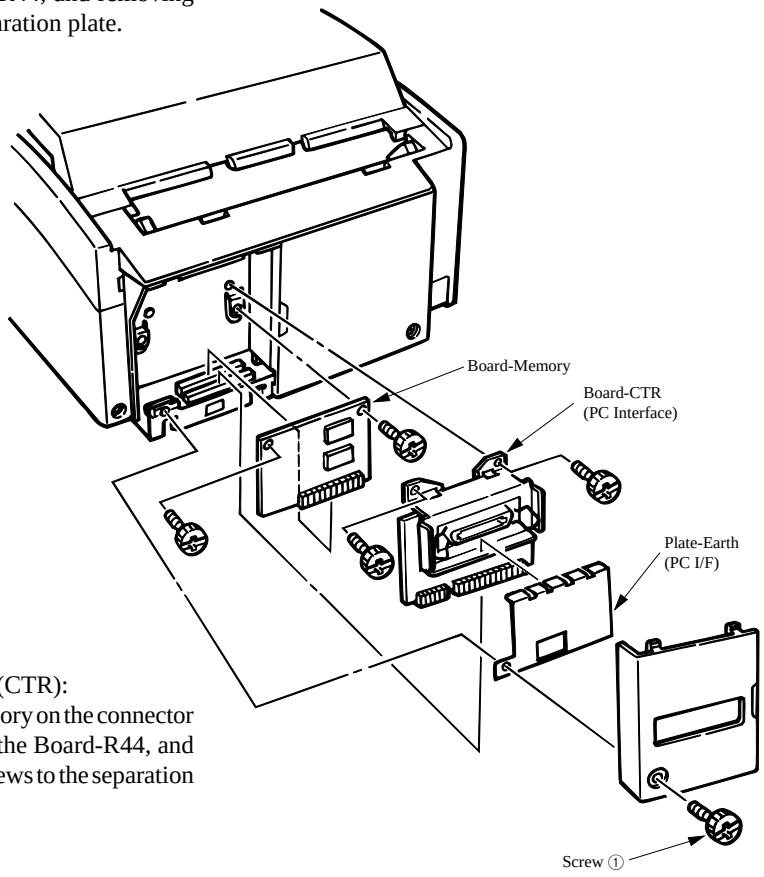
4.1.3.7 Option (Board-Memory: MEM, Board-CTR; PC Interface)

(1) Disassembly procedure

a) Remove the Cover-Rear by removing the screw ① and the part of the fixing hooks.

b) Remove the Plate-Earth (PC I/F)

c) Board-Memory (MEM):
Remove Board-Memory on the connector CN13 of the Board-R44, and removing the screw to the separation plate.



(CP4.1 Fig. 07)

d) Board-PC Interface (CTR):
Remove Board-Memory on the connector CN11 and CN12 of the Board-R44, and removing the two screws to the separation plate.

Note: Install on the inner side connector for the Board-Memory (MEM) and outside connector for the Board-PC interface (CTR).

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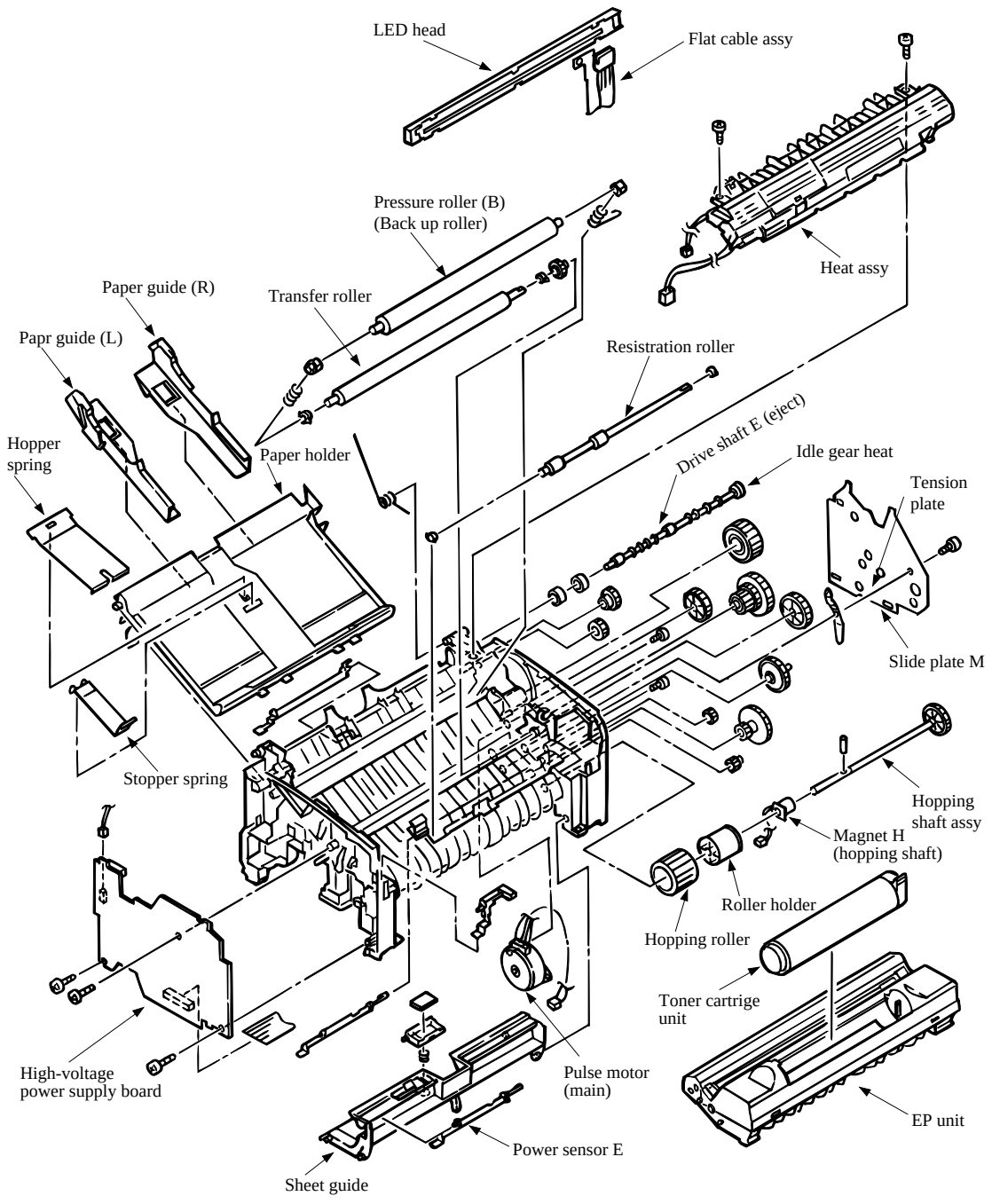
4.1.3.8 Printer Unit Section

[Base Frame Unit]



(CP4.1 Fig. 23)

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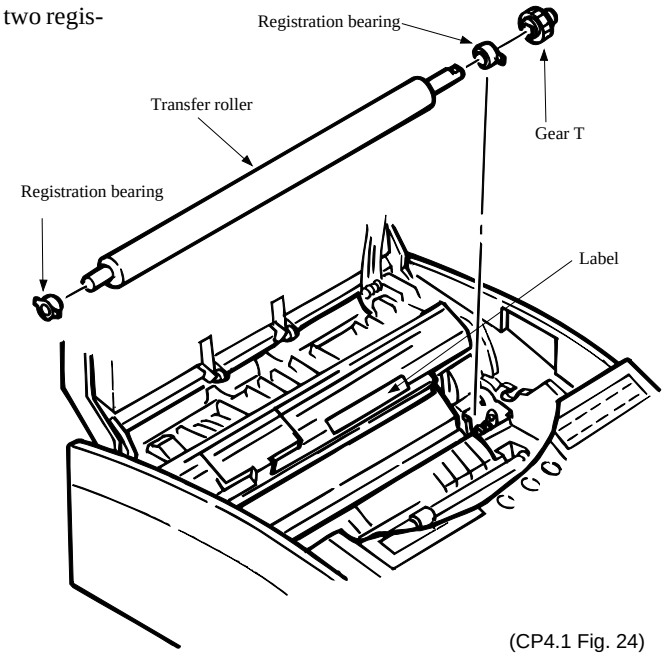
4.1.3.9 Transfer Roller

(1) Disassembly procedure

a) Open the cover assembly-top by raising and remove the ID unit.

b) Remove the right claw.
Then, dismount transfer roller, two registration bearing, and gear T.



(CP4.1 Fig. 24)

(2) Reassembly procedure

Reverse the disassembly procedures.

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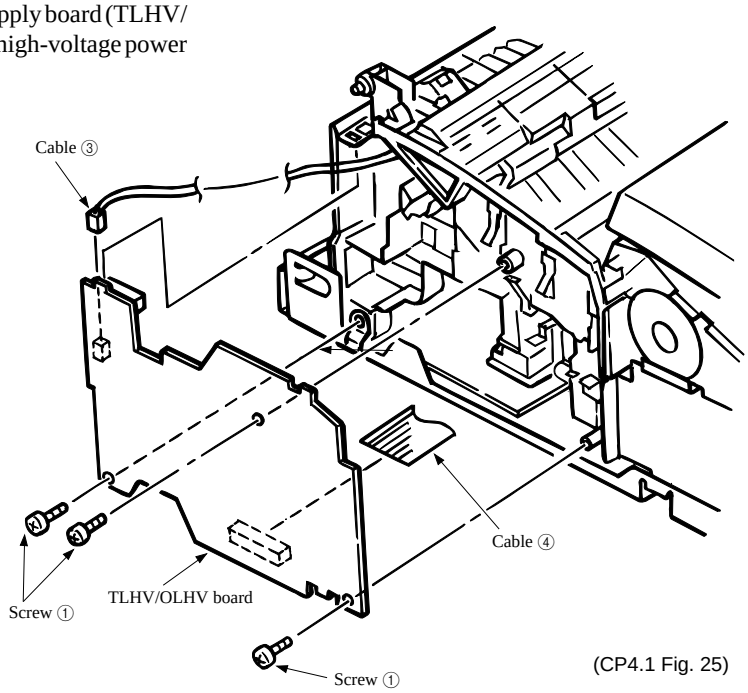
4.1.3.10 High-Voltage Power Supply Unit (TLHV/OLHV)

(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

b) Remove three screws ① and draw out high-voltage power supply board (TLHV/OLHV).

c) Disconnect all the cables ③ and ④ from high-voltage power supply board (TLHV/OLHV) and dismount high-voltage power supply board.



(CP4.1 Fig. 25)

Caution: Note the following when assembling the high-voltage power supply board:
- Mount the high-voltage power supply board with Cover-top assembly removed or open.
- Take care that cable ③ will not interfere with the paper sensor exit when it is connected.

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.1.3.11 Holder Assembly

(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

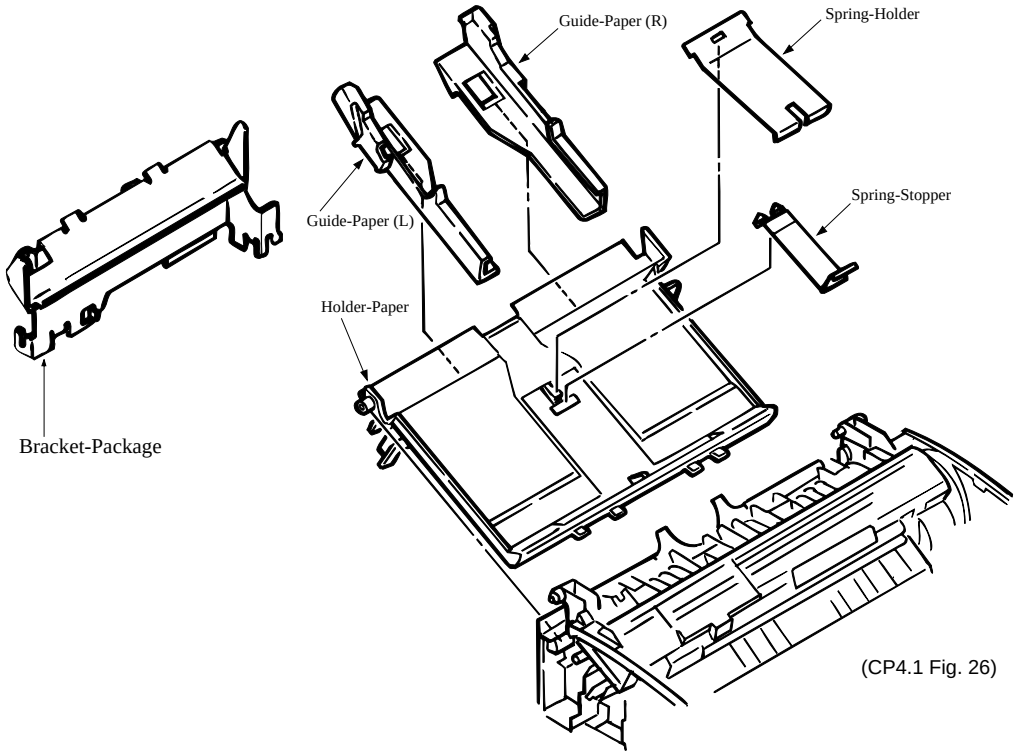
b) Dismount the Bracket-Package.

c) Dismount the Holder-Paper.

d) Unlock and dismount the Guide-Paper (L) and Guide Paper (R).

e) Remove the claw and dismount Spring-Holder.

f) Remove the claw and dismount Spring-Stopper.



(CP4.1 Fig. 26)

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.1.3.12 Plate-Side M and Gear-Idle

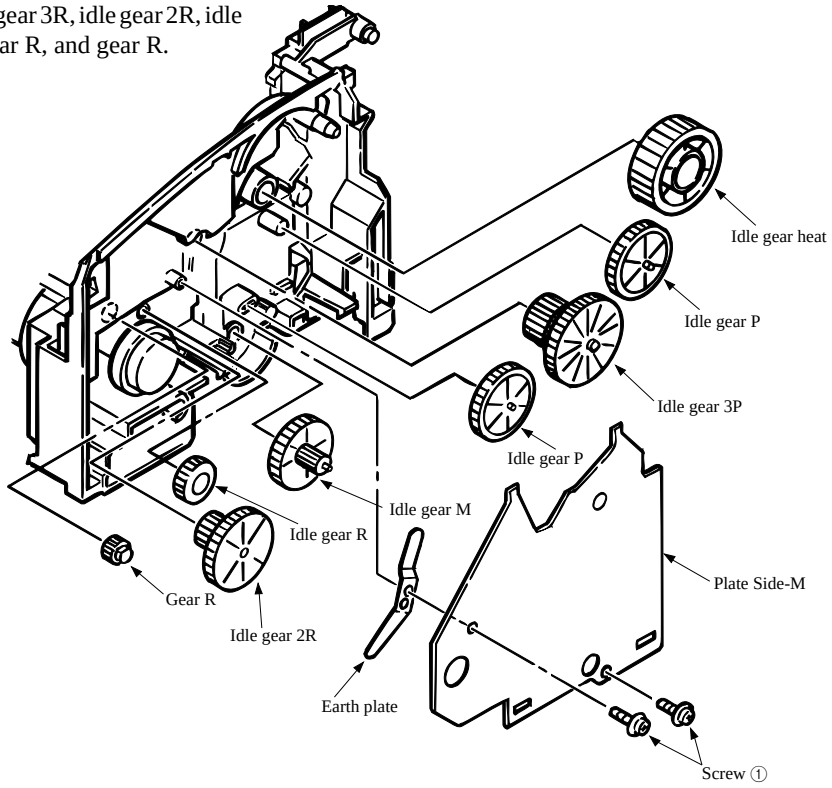
(1) Disassembly procedure

Perform parts replacement while making the base frame assembly stand so that Plate-Side M will face upward.

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

b) Remove two screws ① and two claws, then dismount Plate-Side M.

c) Dismount Plate-Earth, two idle gears P, idle gear M, idle gear 3R, idle gear 2R, idle gear heat idle gear R, and gear R.



(CP4.1 Fig. 27)

(2) Reassembly procedure

Reverse the disassembly procedure.

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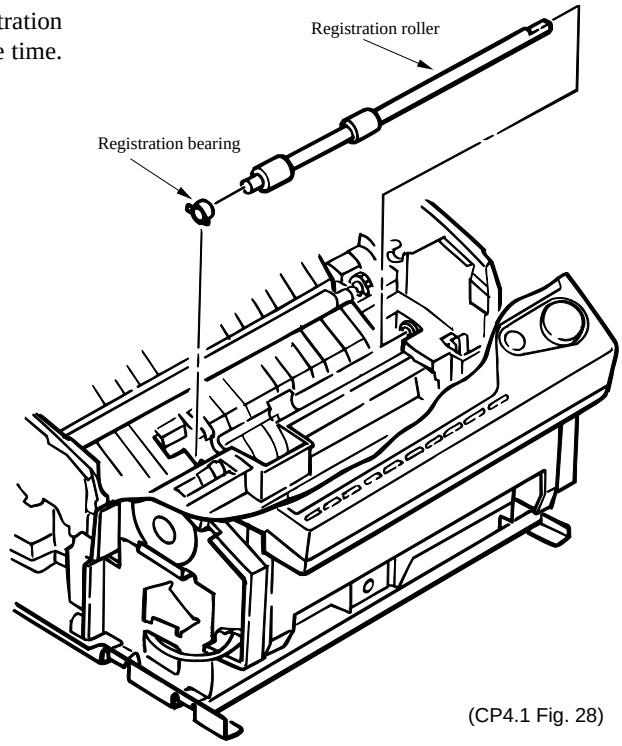
4.1.3.13 Registration Roller

(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

b) Move registration roller to the right and dismount it by lifting. (Two registration bearings also come off at the same time. Take care not to lose them.)



(CP4.1 Fig. 28)

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.1.3.14 Drive Shaft E (Eject) and Eject Roller

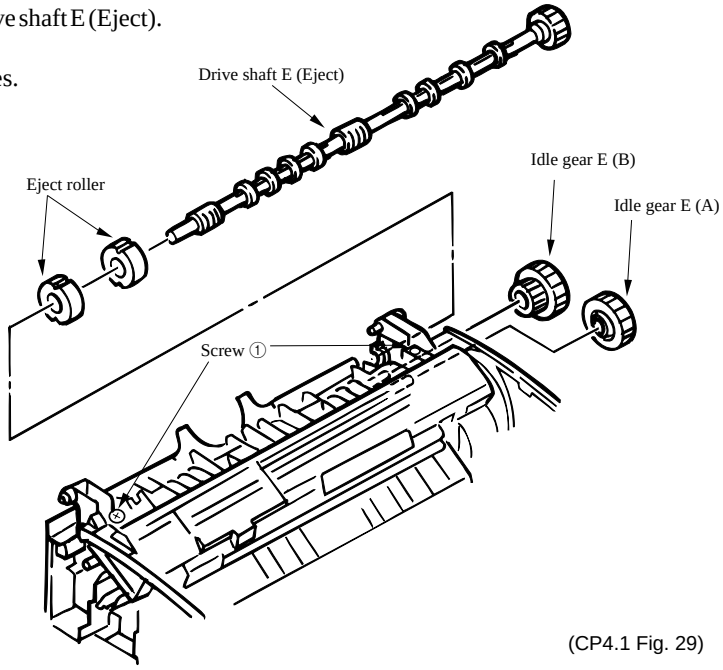
(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

b) Remove two screws ① from Cover Heat Assembly (section 4.3.7), lift the heat assay, and dismount idle gear E (A) and idle gear E (B).

c) Unlock and dismount drive shaft E (Eject).

d) Dismount two eject rolles.



(CP4.1 Fig. 29)

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.1.3.15 Heat Assembly

This section explains how to dismount the heat assembly and parts in the assembly.

(1) Disassembly procedure

< Dismounting the heat assembly>

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

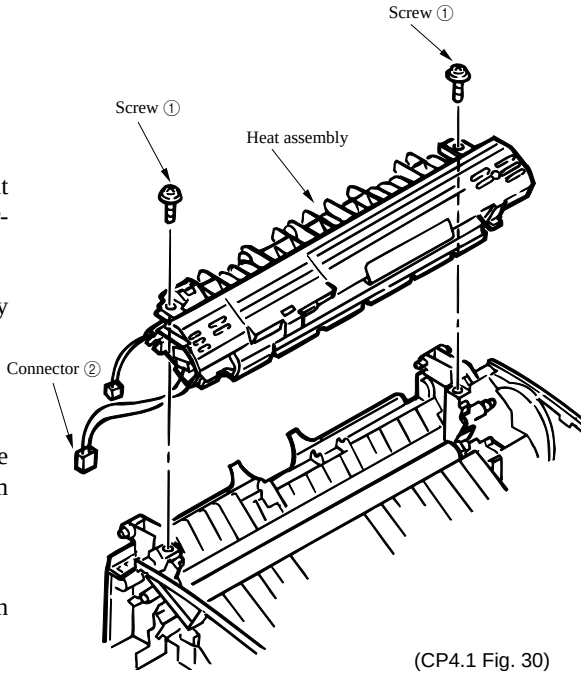
b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)

c) Remove NCU-Board with two screws.

d) Remove Bracket-Package with three screws, then disconnect Cable-Flat from connector on R44-Board (M-CNT). (See Sction 4.1.3.19)

e) Pull out the Holder-Assy. (See Section 4.1.3.11)

f) Disconnect connector ②, remove two screws ①, and dismount the heat assembly.



(CP4.1 Fig. 30)

<Dismounting parts in heat assembly>

a) Dismount heat separator.

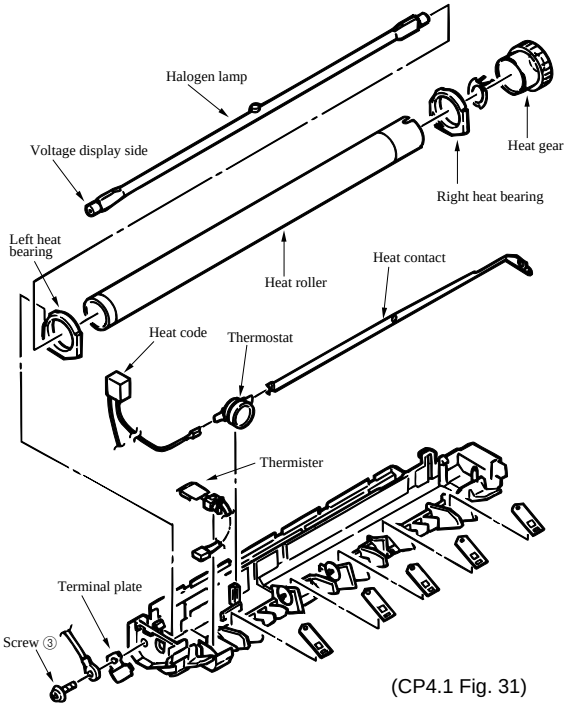
b) Remove screw ③ and dismount terminal plate. (Handle heat assembly carefully because Halogen lamp comes off.)

c) Turn left and right heat bearings in the arrow direction to unlock. Then, dismount halogen lamp, heat bearing, heat roller, and heat gear together. (Take care not to drop the Halogen lamp.)

d) Dismount thermistor.

e) Dismount the clamp, then thermostat, heat contact, and heat cord together.

f) Dismount heat contact and heat cord from thermostat.



(CP4.1 Fig. 31)

Caution: Take care not to bend the claw when dismounting heat bearing.

(2) Reassembly procedure

Reverse the disassembly procedures

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4.1.3.16 Pressure Roller B (Back Up Roller)

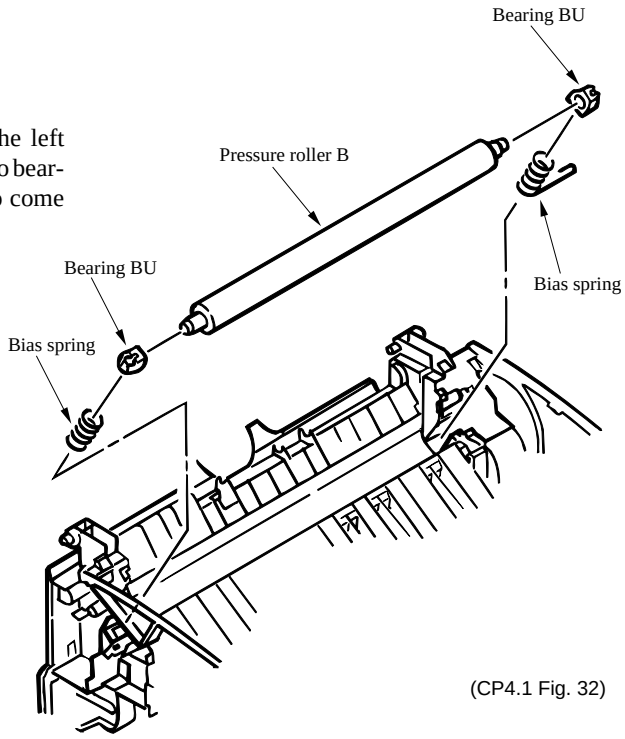
(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)

c) Dismount heat assembly. (See section 4.1.3.15)

d) Dismount the engagement with the left ground, then pressure roller B. (Two bearing BUs and two bias springs also come off at the same time.)



(CP4.1 Fig. 32)

(2) Reassembly procedure

Reverse the disassembly procedures

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4.1.3.17 Hopping Shaft Assembly

(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)

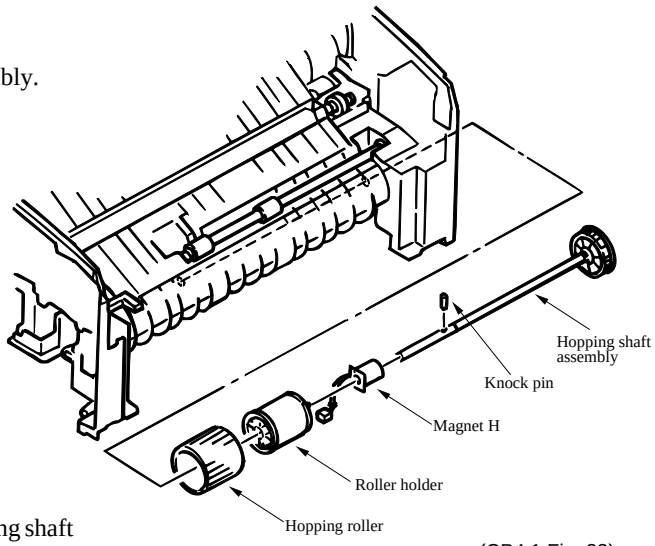
c) Dismount the paper holder assembly. (See Section 4.1.3.11)

d) Dismount the sheet guide. (See Section 4.1.3.12)

e) Dismount the side plate M. (See Section 4.1.3.12)

f) Raise up roller holder, slide hopping shaft assembly, and dismount roller holder and hopping roller. (Knock pin also comes off at the same time. Take care not to lose it.)

g) Draw out hopping shaft assembly to the right and dismount magnet H.



(CP4.1 Fig. 33)

(2) Reassembly procedure

Reverse the disassembly procedures

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4.1.3.18 Paper Sensor E, Paper Sensor Exit and Toner Sensor Assembly

(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).

b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)

c) Dismount the paper holder assembly. (See Section 4.1.3.11)

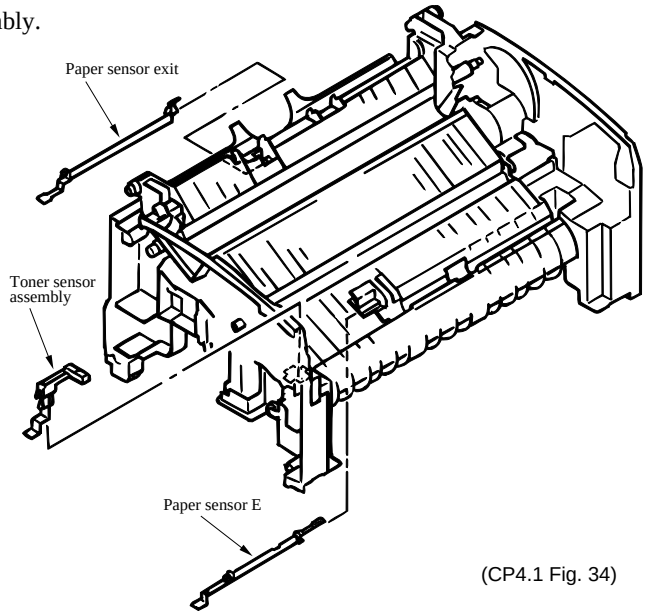
d) Dismount the heat assembly. (See Section 4.1.3.15)

e) Dismount the drive shaft E. (See Section 4.1.3.14)

f) Dismount the paper sensor E.

g) Dismount the paper sensor exit.

h) Dismount the toner sensor assembly.



(CP4.1 Fig. 34)

(2) Reassembly procedure

Reverse the disassembly procedures

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4.1.3.19 Printer Unit

(1) Disassembly procedure

a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-Main).

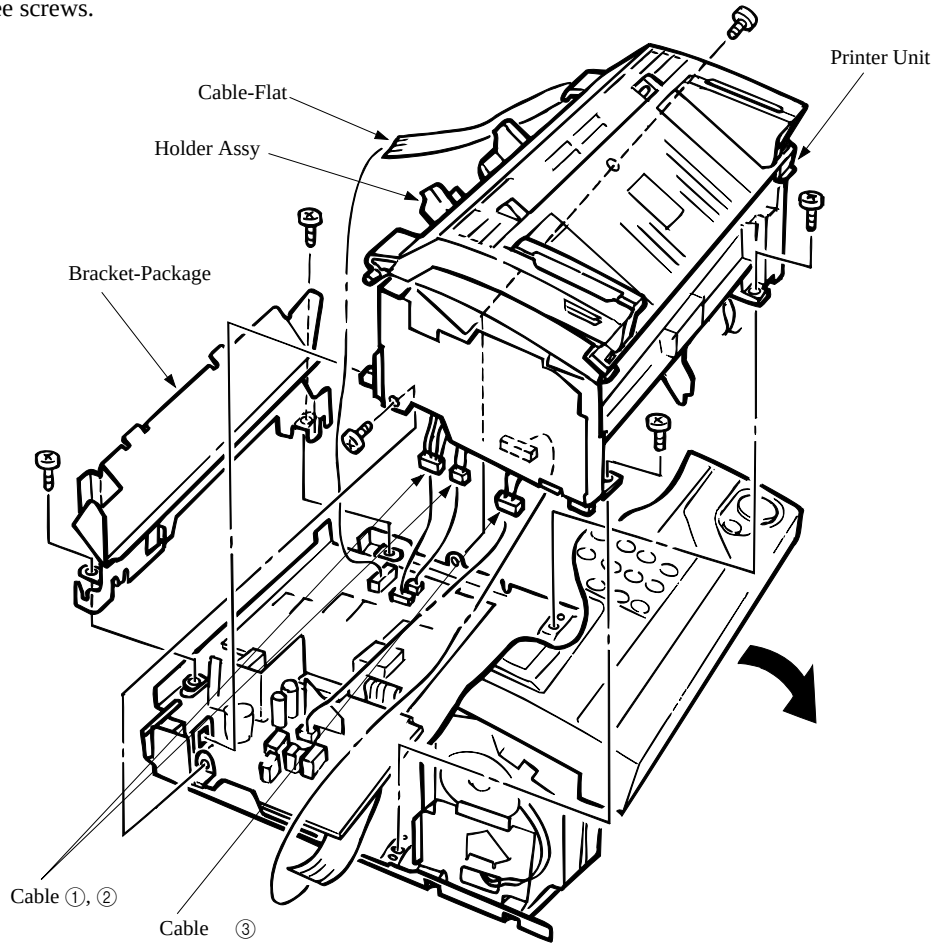
b) Remove Bracket-Package with three screws, then disconnect Cable-Flat from connector on R44-Board (M-CNT).

c) Pull out the Holder-Assy.

d) Dismount the high-voltage power supply board.
(See Section 4.1.3.10)

e) Disconnect cable ① and ② from connector on Board-R44 (M-CNT), and disconnect cable ③ from Connect on Power Supply Unit.

f) Remove the Printer Unit by removing three screws.



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4. MECHANICAL DISASSEMBLY AND REASSEMBLY FOR OKIFAX 5100 SERIES

This chapter explains the procedures for replacement of assemblies and units in the field.

4.2 General

4.2.1 Precautions for Parts Replacement

(1) Before starting disassembly and reassembly, always turn the AC power switch OFF, and pull out the AC plug.

Note: Unplug the AC power cord from the wall outlet first and then from the facsimile.

(2) Do not try to disassemble as long as the facsimile is operating normally.

(3) Do not remove unnecessary parts: Try to keep disassembly to a minimum.

(4) When disassembling, follow the prescribed sequence. Otherwise, parts may be damaged.

(5) Since screws and small parts are likely to be lost, they should temporarily be attached to their original positions.

(6) When handling items such as printed circuit boards, do not wear gloves that are likely to generate static electricity.

(7) Using a wrist band connected to the ground will protect semiconductors on printed circuit boards from damage by the static electricity.

(8) Do not place printed circuit boards directly on the equipment or on the floor.

	Board or Part	Adjustment
(a)	NCU board	DIP switches to be placed in the same position as on the removed board. Refer to Chapter 8.

Note: The DIP switches setting is subject to change by PTT parameters.
WN5, DN5 and FN5 board (Except for USA/Canada version)

(b)	LED print head	When the rank marking of the replaced LED print head (new part) is the same as that of the used LED print head (old part), you do not always have to set the LED print head strobe time by the technical function No. 27. (Refer to Chapter 5)

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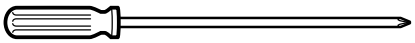
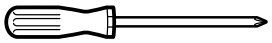
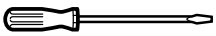
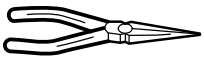
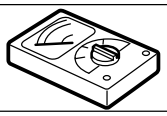
4.2.2 Tools

Table 4.2.1 shows the tools required for the replacement of parts such as circuit boards and mechanical units.

Table 4.2.1 Tools

No.	Service tools		Q'ty	Remarks
1		Philips screw driver (L)	1	
2		Philips screw driver (M)	1	
3		Philips screw driver (S)	1	
4		Flat screw drivers (S)	1	
5		Philips screw driver (S)	1	
6		Radio pliers	1	
7		Nippers	1	
8		Multimeter	1	Short-ciucuit test

4.2.3 How to Disassemble and Reassemble

This section explains how to disassemble and reassemble the fax.

- Figure 4.2 shows the disassembly procedure flow as generalization.
- The detailed disassembly procedure is explained from sub-section 4.2.3.1 to 4.2.3.8.

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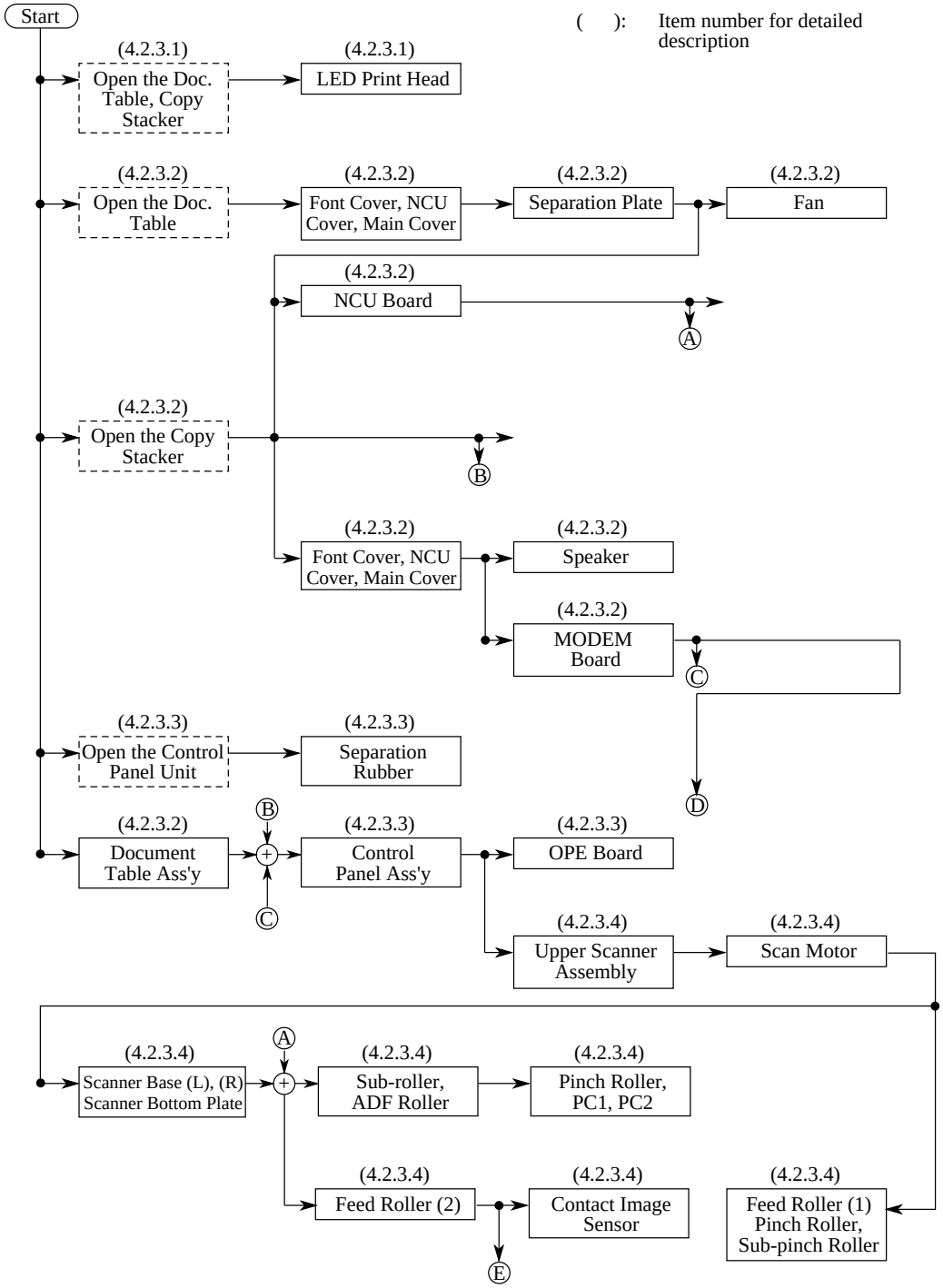

Figure 4.2 (1/2) OKIFAX 5000 Series Disassembly Procedure Flow

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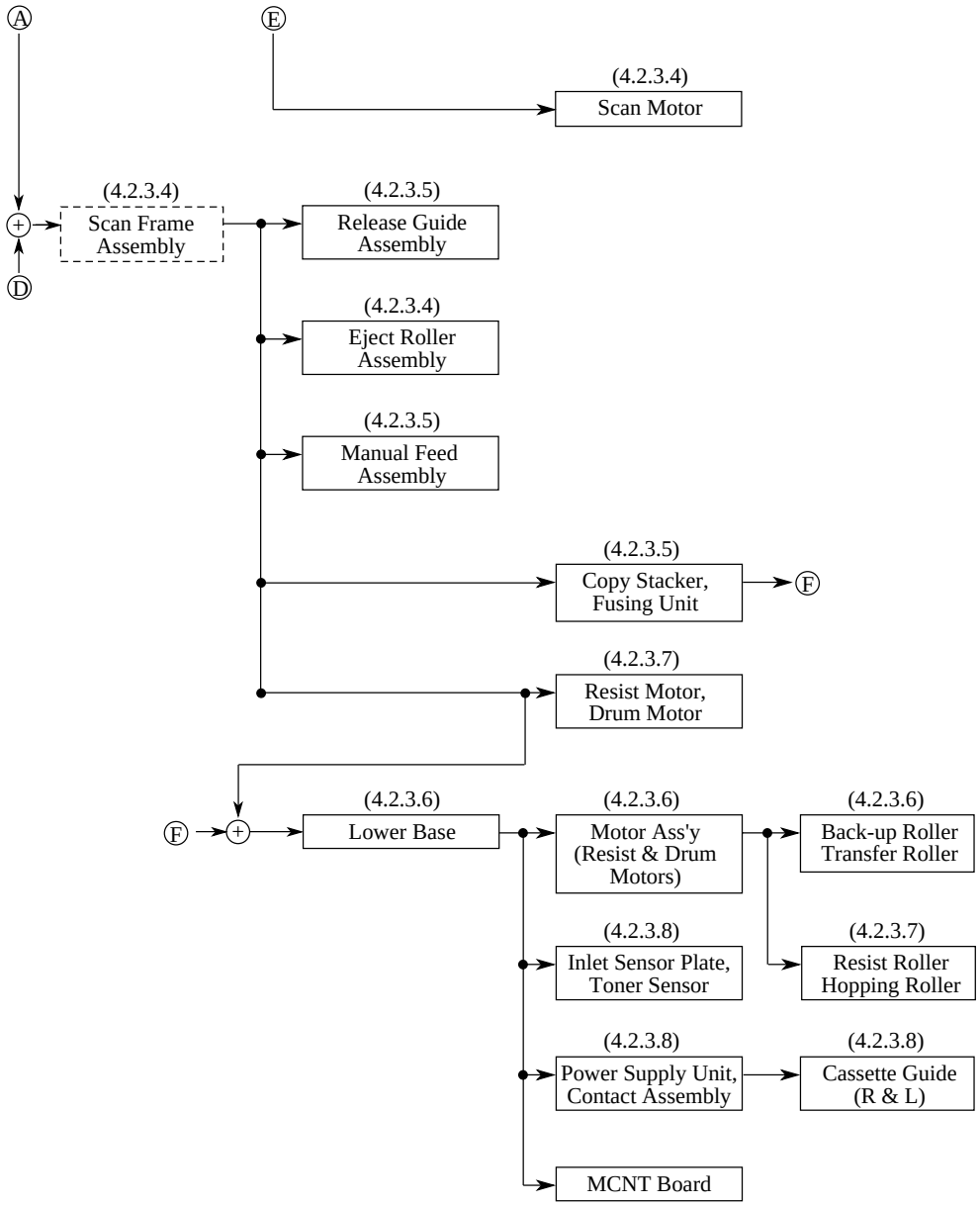

Figure 4.2 (2/2) OKIFAX 5000 Series Disassembly Procedure Flow

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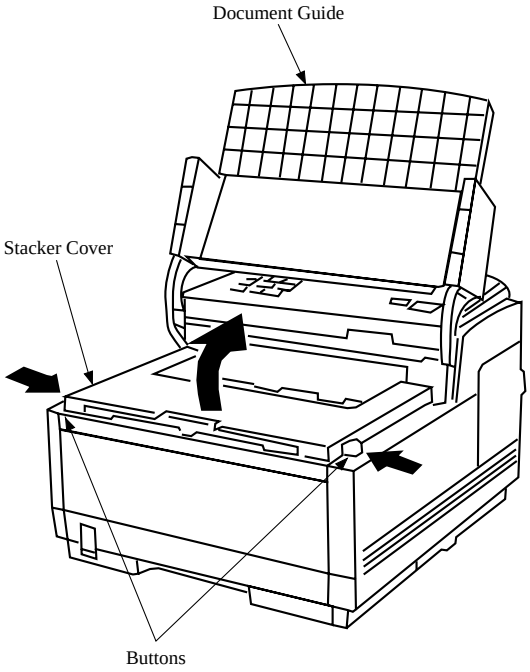
4.2.3.1 LED Print Head

It is used two kind of head as the LED print head. (208 mm width or 216 mm width)

(1) Disassembly procedure

a) Open the Document Table assembly.

b) Open the Stacker Cover by pushing the Buttons.

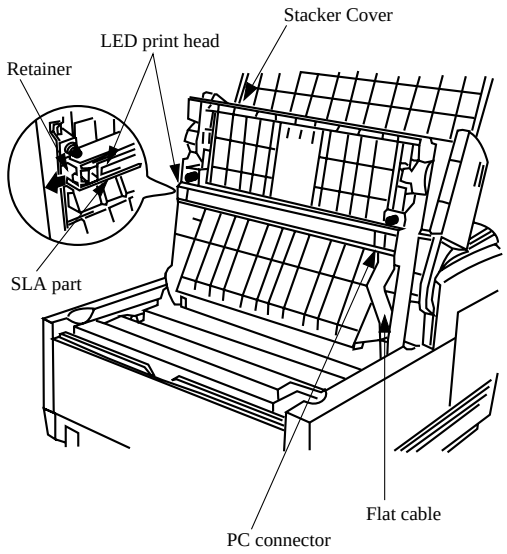


(FX-050VP-C4-001)

c) Disconnect the PC connector from the LED print head.

d) Disconnect the flat cable from the PC connector.

e) Remove the LED print head while spreading the retainer on the Stacker Cover.



(FX-050VP-C4-002)

Note: Be sure not to touch directly or push the SLA part of the LED print head.

(2) Reassembly procedure

Reverse the disassembly procedures.

Note: After replacing the LED print head, set drive time of the LED print head following the marking. (Refer to section 5.1). When you replace the LED print head, if the width of the LED head to be used is changed from current version, you should select the head width by the service personnel initial setting (No. 28). (Refer to table 2.9.1 TF No. 28)

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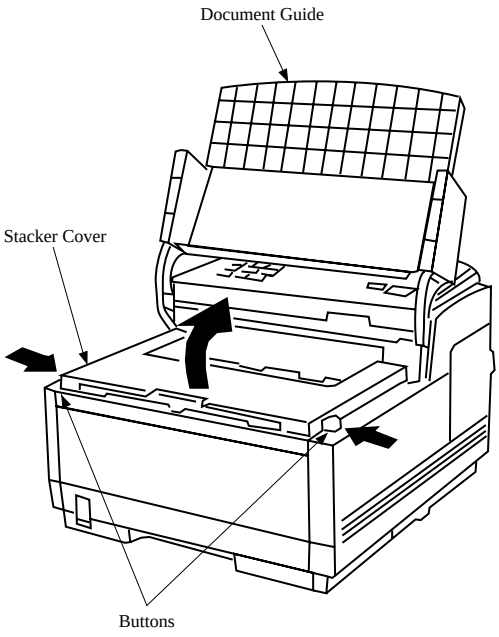
4.2.3.2 ID Unit, Rear Cover, NCU Cover, Main Cover, Separation Plate, NCU Board, Modem Board

(1) Disassembly procedure

1) ID Unit, Rear Cover, NCU Cover, Main Cover

a) Open the Document Guide assembly.

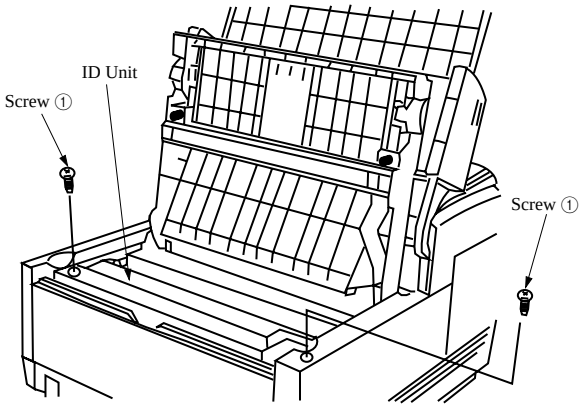
b) Open the stack cover by removing the buttons.



(FX-050VP-C4-001)

c) Take out the ID Unit from the equipment.

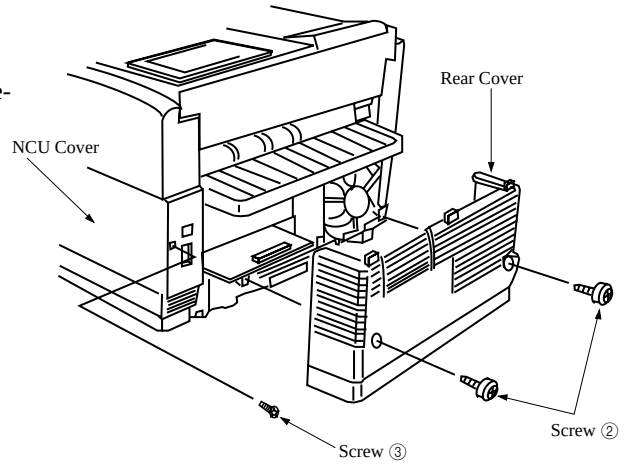
d) Remove the two screws ①.



(FX-050VP-C4-003)

e) Remove the Rear Cover by removing the two screws ②.

f) Remove the NCU Cover by removing the screws ③.



(FX-050VP-C4-004)

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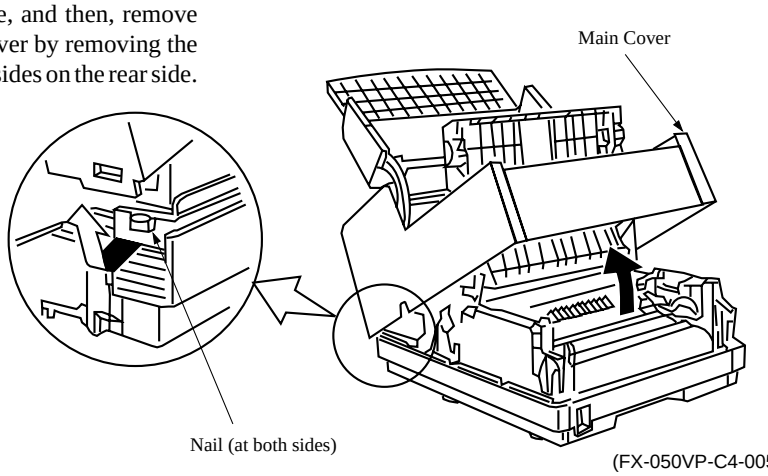
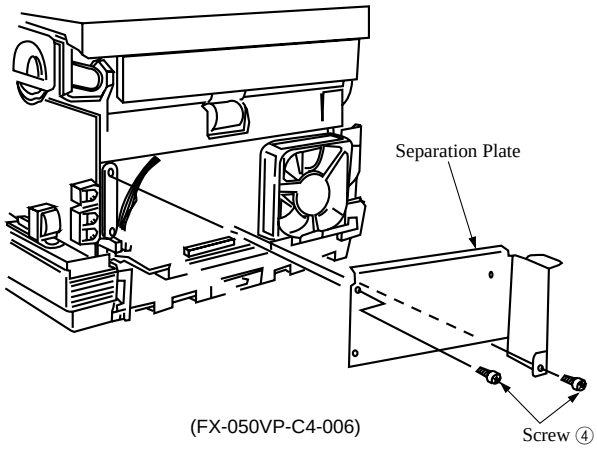
g) First, open the Main Cover from the front side, and then, remove the Main Cover by removing the nails at both sides on the rear side.



(FX-050VP-C4-005)

2) Separation Plate

a) Remove the Separation Plate by removing the two screws ④.

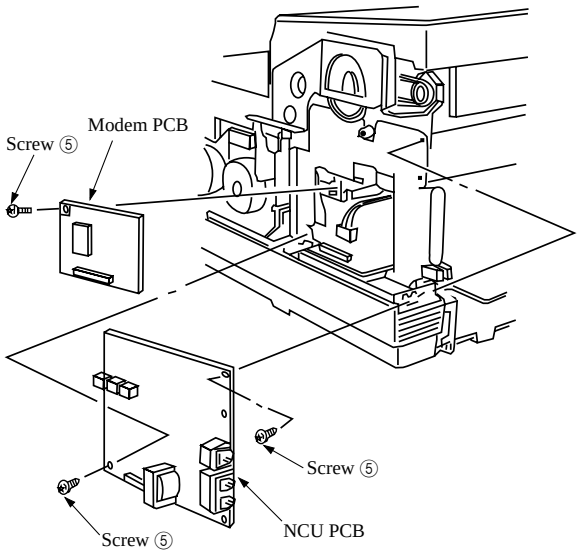


(FX-050VP-C4-006)

3) NCU Board, MODEM Board

a) Remove the NCU Board by removing the two screws ⑤.

b) Remove the MODEM Board by removing the screw ⑥.
- OKIFAX 5500/5600: 28.8 kbps board normally mounted.
- OKIFAX 5200/5300: 14.4 kbps board normally mounted.



(FX-050VP-C4-007)

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.2.3.3 Control Panel Assembly, Paper Guide (U) Assembly.

(1) Disassembly procedure

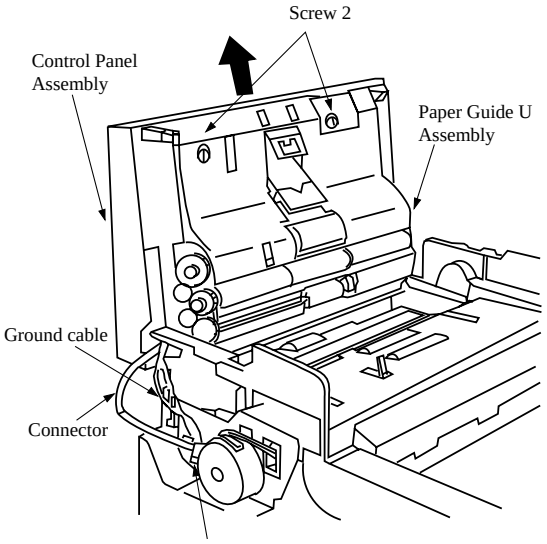
1) Control Panel Assembly and Paper Guide (U) Assembly

a) First, carry out the disassembly procedure up to the point of the 4.2.3.2 (Main Cover, NCU Cover and Rear Cover).

b) Remove the ground cable by removing the screw ①.

c) Disconnect the connector of the Control Panel from the MCNT Board.

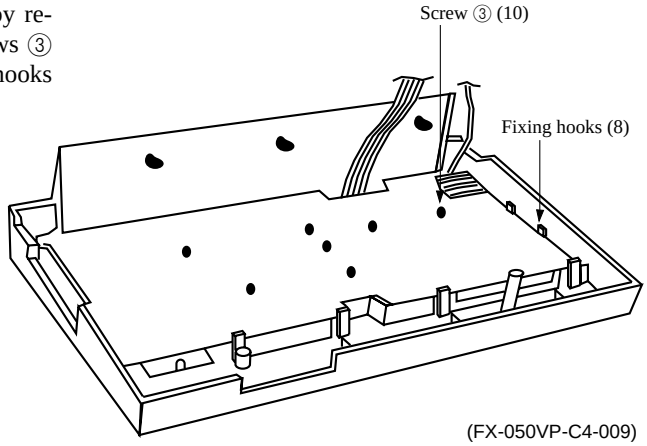
d) The removal of the two screws ② results into two separate assemblies:
Control Panel Assembly and Paper Guide (U) Assembly.



(FX-050VP-C4-008)

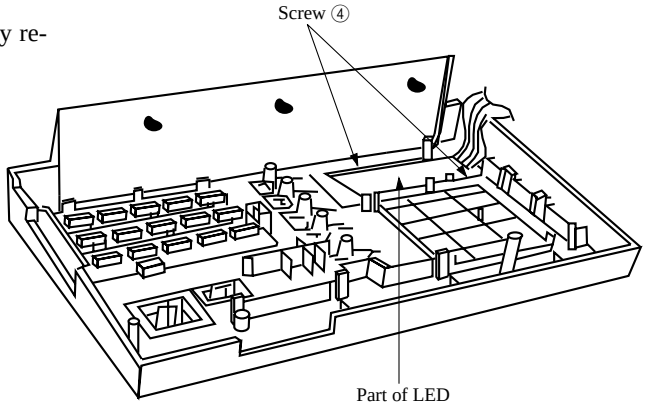
2) Control Panel Assembly

a) Remove the OPE Board by removing the 10 small screws ③ and the part of the fixing hooks (8).



(FX-050VP-C4-009)

b) Remove the part of LED by removing the two screws ④.



(FX-050VP-C4-010)

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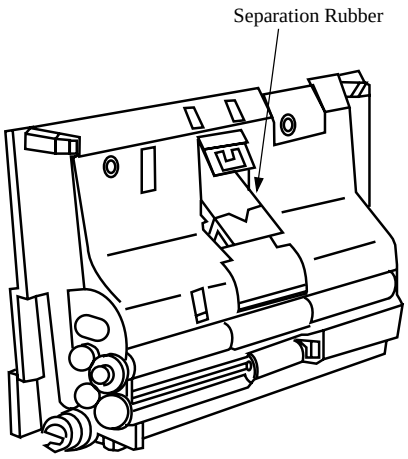
3) Paper guide (U) Assembly

a) Separation Rubber

a. The Separation Rubber can be removed from the Paper Guide (U) Assembly.

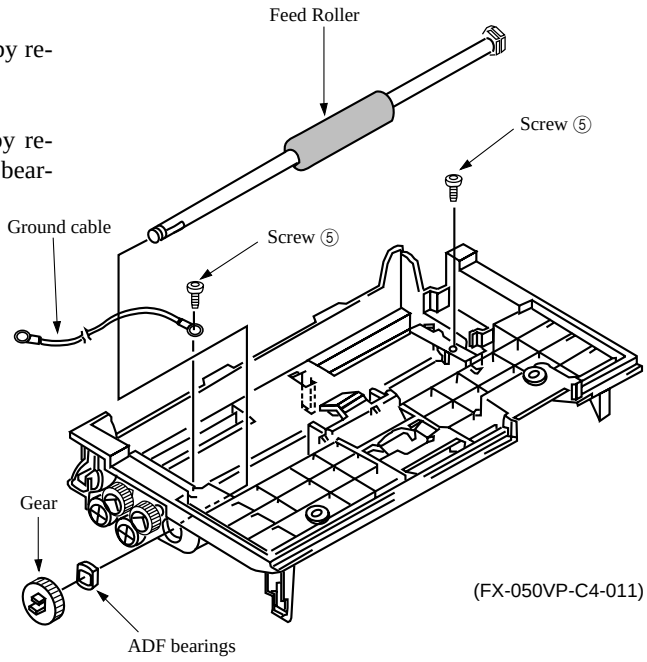


(FX-050VP-C4-011)

b) Feed Roller

a. Remove the ground cable by removing the two screws ⑤.

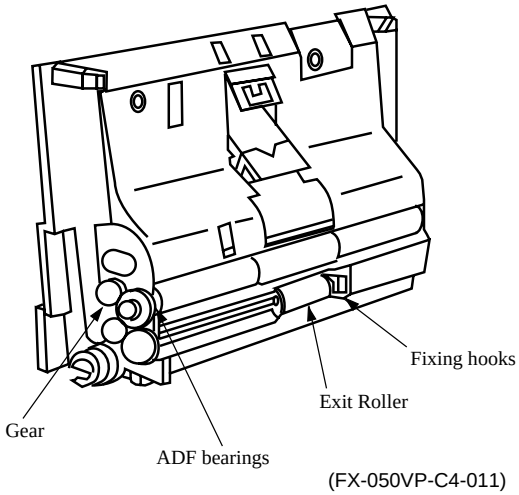
b. Remove the Feed Roller by removing the gear and ADF bearings.



(FX-050VP-C4-011)

c) Scan Roller
Remove the Scan Roller by removing the gear and ADF bearing.

d) Exit Roller
Remove the Exit Roller while spreading and holding up the part of the fixing hooks.



(FX-050VP-C4-011)

Note: Be careful as not to break the shaft of the Exit Roller when removing.

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.2.3.4 Sub-roller, ADF Roller Assembly, Pinch Roller, Contact Image Sensor, Document Detectors (PC1 and PC2).

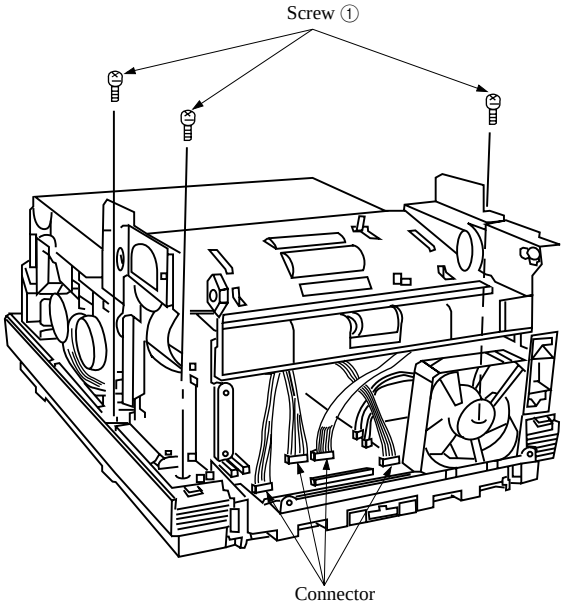
(1) Disassembly procedure

1) Scanner Unit

a) First, carry out the disassembly procedure up to the point of the 4.2.3.2 (Rear Cover and Main Cover) and 4.2.3.3 (Control Panel Assembly and Paper Guide (U) Assembly).

b) Disconnect the connector from the MCNT Board and the AC inlet from the scanner frame.

c) Remove the Scanner Unit by removing the three screws ①.



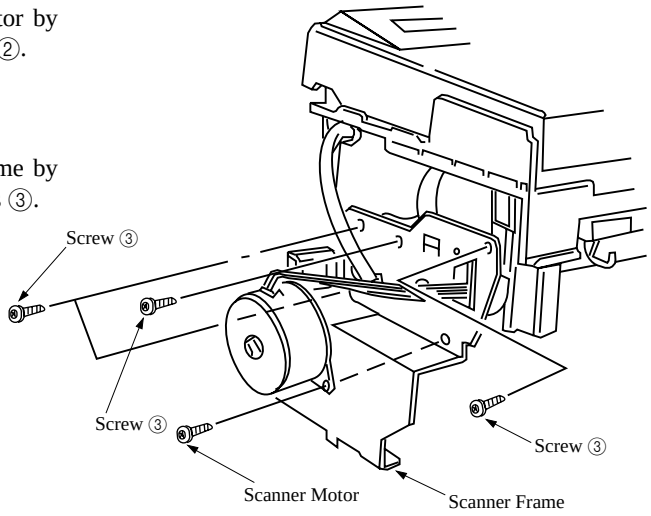
(FX-050VP-C4-013)

2) Scanner Motor

a) Remove the Scanner Motor by removing the two screws ②.

3) Scanner Frame

a) Remove the Scanner Frame by removing the three screws ③.

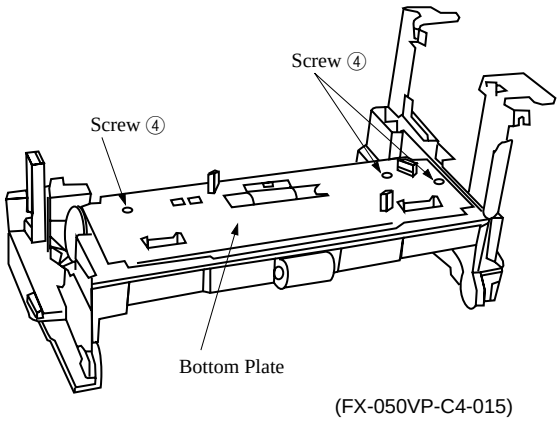


(FX-050VP-C4-014)

4) Sub-roller, ADF roller assembly, Pinch Roller, Contact Image Sensor

- Turn the Scanner Frame Assembly inside out and perform the disassembly procedure.

a) Remove the Bottom Plate by removing the three screws ④.



(FX-050VP-C4-015)

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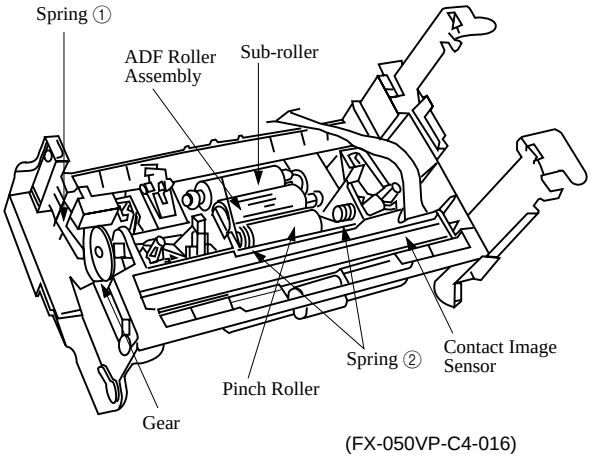
b) Remove the Sub-roller from the Scanner Frame.

c) Remove the spring ① from the Scanner Frame.

d) Remove the ADF Roller Assembly by removing the gear on the Scanner Frame.

e) After removing the ADF Roller, remove the Pinch Roller by holding up the two springs ② while the Pinch Roller Shaft is pushed and released.

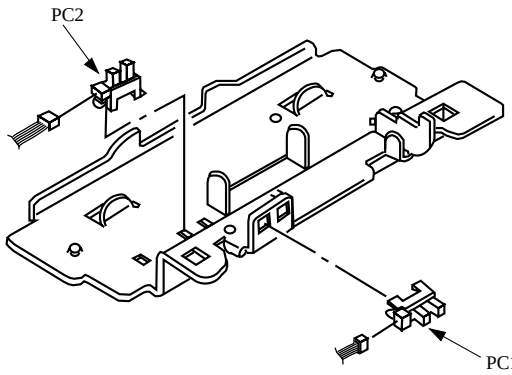
f) Remove the Contact Image Sensor by disconnecting the connector.



(FX-050VP-C4-016)

5) PC1, PC2

a) After disconnecting the two connectors, remove the photo-coupler sensors PC1 and PC2 on the Bottom Plate by pressing the latch using the flat screwdriver or the like.



(FX-050VP-C4-017)

(2) Reassembly procedure

Reverse the disassembly procedure.

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4.2.3.5 Resist Motor, Drum Motor, Release Guide Assembly, Manual Guide Assembly, Stacker Cover, Fusing Unit

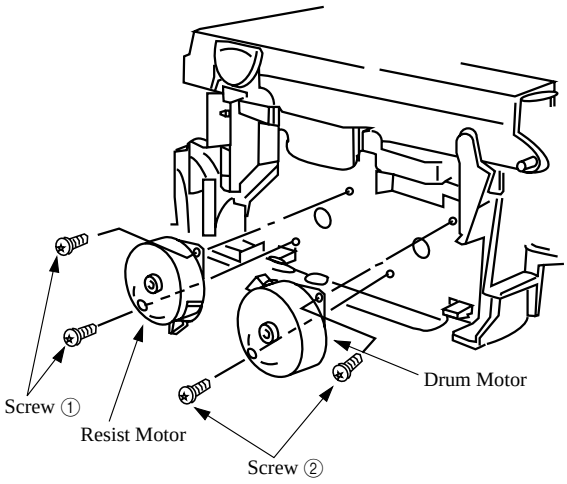
(1) Disassembly procedure

- First, carry out the disassembly procedure up to the point of the Scanner Unit Assembly removal (Refer to Sub-section 4.2.3.4.)

1) Resist Motor and Drum Motor

a) Remove the Resist Motor by removing the two screws ①.

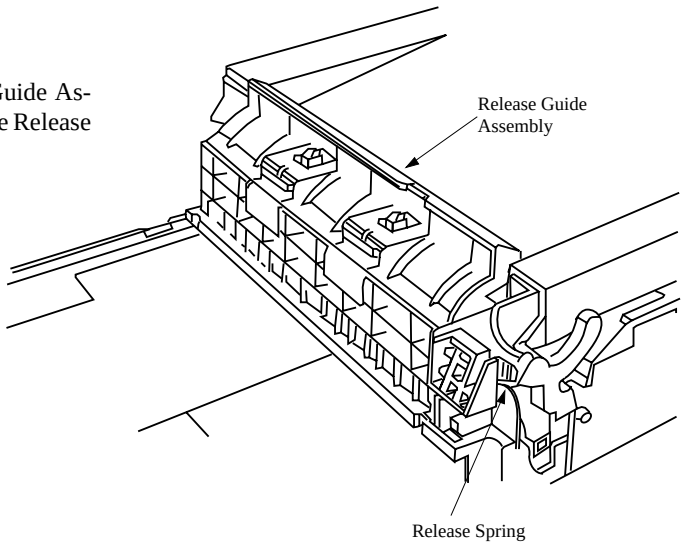
b) Remove the Drum Motor by removing the two screws ②.



(FX-050VP-C4-018)

2) Release Guide Assembly

a) Remove the Release Guide Assembly by removing the Release Spring.



(FX-050VP-C4-019)

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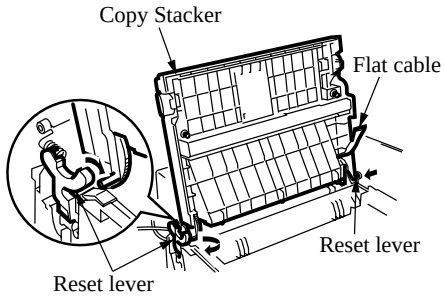
3) Stacker Cover

a) Disconnect the flat cable.

b) Remove the Copy Stacker by pressing inward the two latches on it from the two reset levers.

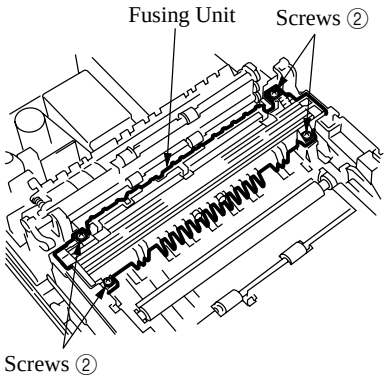
c) Remove the Copy Stacker by spreading it from the lower base.



(FX050-C4-021)

4) Fusing Unit

a) Remove the Fusing Unit by removing the four screws ②.

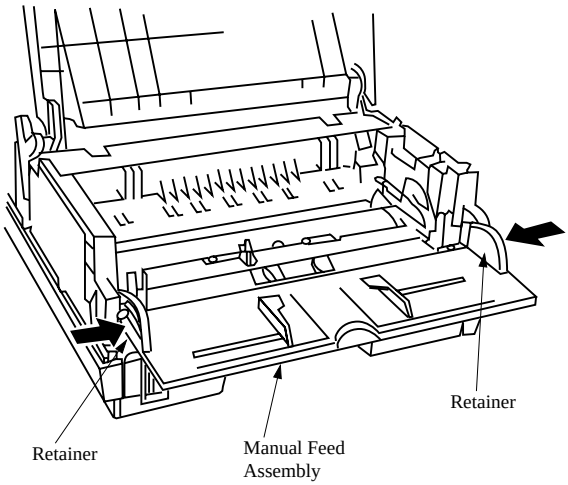


(FX050-C4-022)

5) Manual Feed Assembly

a) First, carry out the disassembly procedure up to the point of Main Cover removal. (Refer to subsection 4.2.3.2)

b) Remove the Manual Feed Assembly by pressing inward the two retainers.



(FX-050VP-C4-020)

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.2.3.6 Lower Base, Motor Assembly, Back-up Roller, Transfer Roller

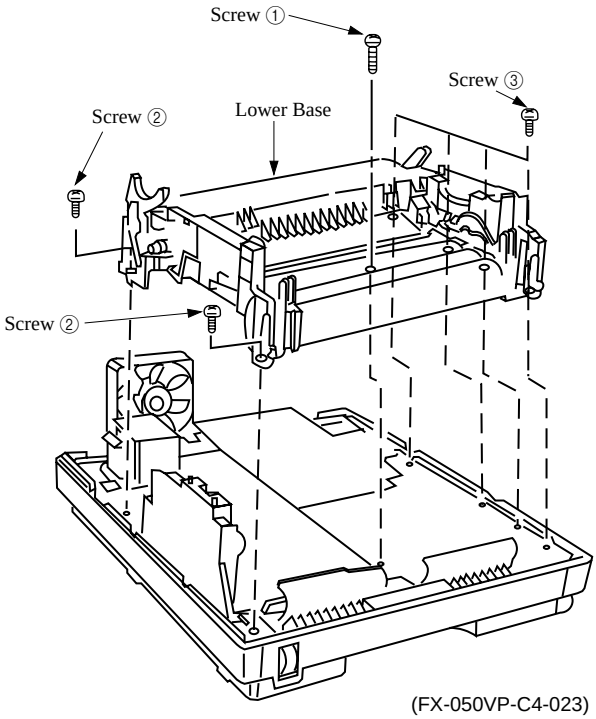
(1) Disassembly procedure

1) Lower Base, Motor Assembly

a) First, carry out the disassembly procedure up to the point of the Fusing Unit removal.
(Refer to sub-item 4.2.3.5.)

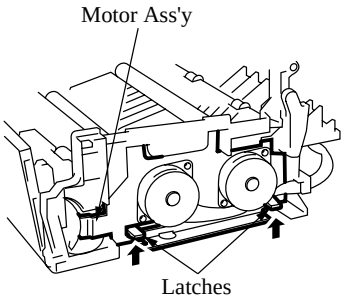
b) Disconnect the two connectors (CN3 and CN4 on the MCNT board).

c) Remove the Lower Base by removing the seven screws ① to ③.



(FX-050VP-C4-023)

d) Press up and hold the two latches while removing the Motor Assembly out.

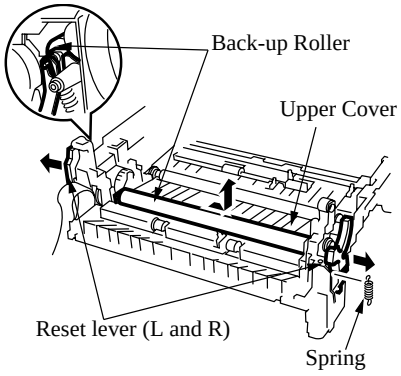


(FX050-C4-024)

2) Back-up Roller, Transfer Roller

a) After removing the Lower Base, remove the spring.

b) Lift the left side of the Back-up Roller and pull it out leftwards.



(FX050-C4-022)

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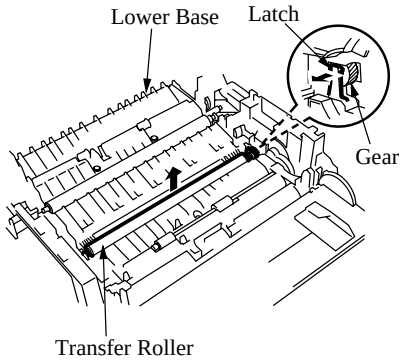
c) Release the gear by unlocking the latch on the Lower Base.

d) Lift the right side of the Transfer Roller and shift rightwards, then pull it out from the Lower Base.



(FX050-C4-026)

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.2.3.7 Resist Roller, Hopping Roller, Sensor Plates

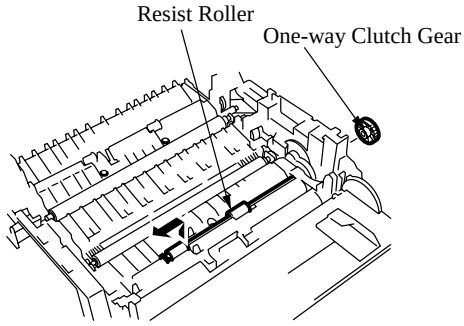
(1) Disassembly procedure

1) Resist Roller, Hopping Roller

a) First, carry out the disassembly procedure up to the point of the Lower Base removal.
(Refer to sub-item 4.2.3.6.)

b) Remove the One-way Clutch Gear.

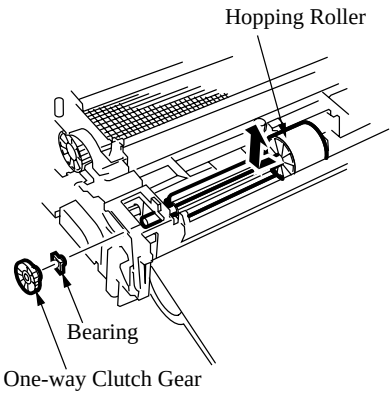
c) Press the Resist Roller to the right side and lift up the left side of it, then take off the Resist Roller.



(FX050-C4-027)

d) Remove the One-way Clutch Gear and Bearing.

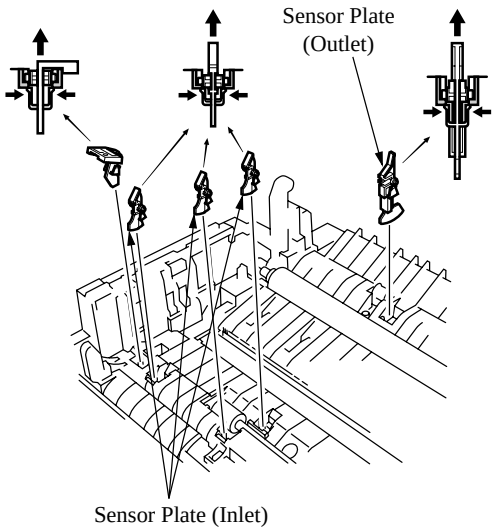
e) Remove the Hopping Roller by sliding to the right side.



(FX050-C4-028)

2) Sensor Plates (Inlet, Outlet), Toner Sensor

a) After removing the Lower Base, remove the Sensor Plate by pressing and holding the latches while shifting the Sensor Plate up and out.



(FX050-C4-029)

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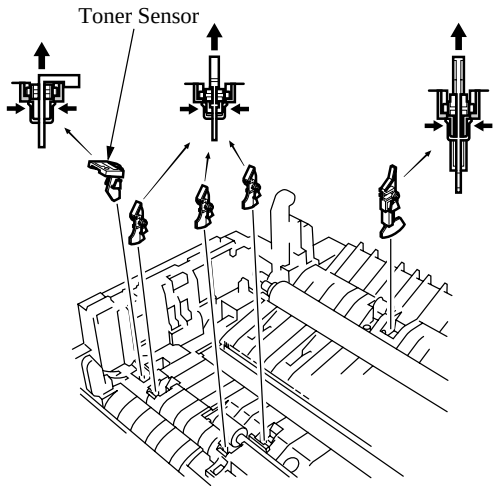
b) Press and hold the Clutch while pushing the Toner Sensor up and out.



(FX050-C4-030)

(2) Reassembly procedure

Reverse the disassembly procedures.

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4.2.3.8 MCNT Board, Power Supply Unit, Contact Assembly, Transformer, Sub-PSU

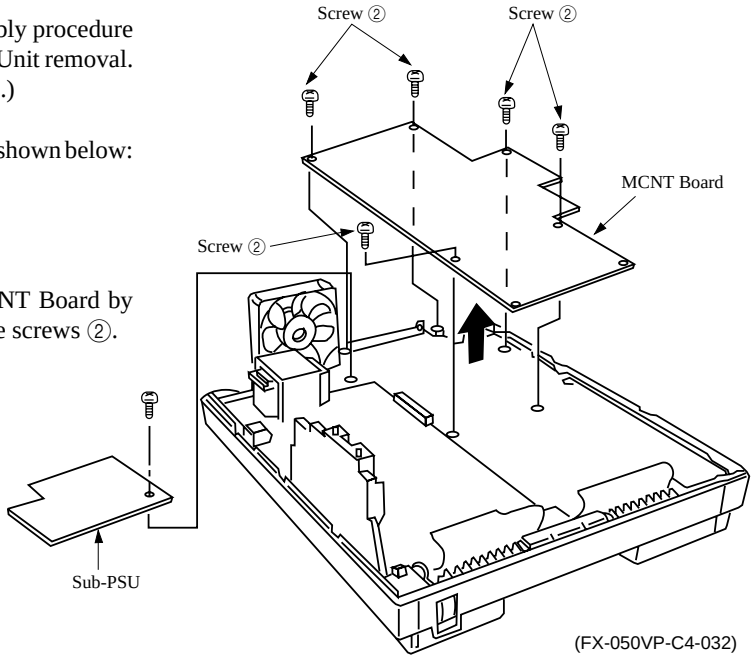
(1) Disassembly procedure

- First, carry out the disassembly procedure up to the point of the Printer Unit removal. (Refer to sub-section 4.2.3.6.)

  Note: MCNT board is shown below:

1) MCNT Board

   a) Remove the MCNT Board by removing the five screws ②.



(FX-050VP-C4-032)

2) Power Supply Unit and Contact Assembly

   a) Disconnect the two connectors from the Transformer.

   b) Remove the Power Supply Unit by removing the three screws ③ and the screw ④.

   c) Separate the Power Supply Unit from the Contact Assembly.

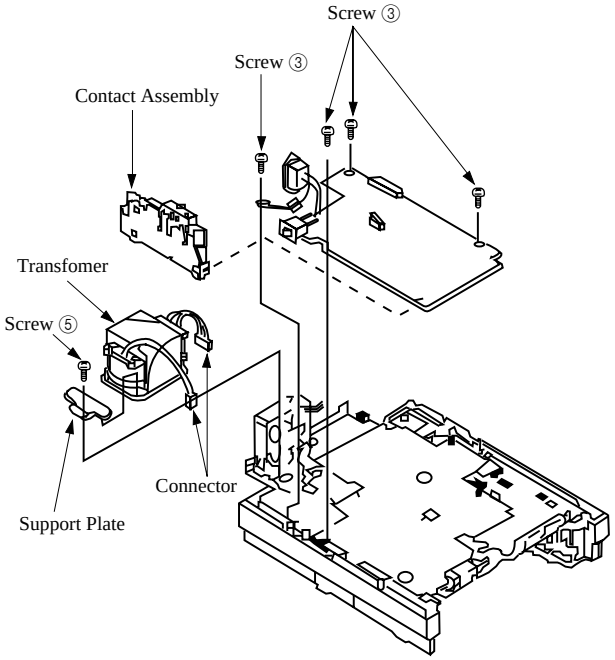
3) Transformer

   a) Remove the Support Plate by removing the five screws ⑤.

   b) Remove the Transformer by disconnecting the two connectors.

4) Sub-PSU

   a) Remove 1 screw.



(FX-050VP-C4-033)

(2) Reassembly procedure

Reverse the disassembly procedures.

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5. ADJUSTMENTS

5.1 Setting of LED Print Head Drive Time

- Adjustment point: Technical Function No. 27.

* To bring the LCD up to Technical Function, press SELECT FUNCTION key once, COPY key twice and "2" key (In case of no message in memory).

Note: When the rank marking of the replaced LED print head (new part) is the same as that of the used LED print head (old part), you do not always have to set the LED print head drive time.

Adjustment:

1) Turn AC power ON.
2) Setting of LED print head should be according to the Table 5.1.1 below:

Table 5.1.1 Setting of Technical Function No. 27

Setting / Rank Marking	MSB ↕ LSB																													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1
		0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1
		0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
		0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
291 – 313										*																					
269 – 290											*																				
248 – 268												*																			
229 – 247													*																		
212 – 228														*																	
196 – 211															*																
181 – 195																*															
168 – 180																	*														
155 – 167																		*													
143 – 154																			*												
132 – 142																				*											
122 – 131																					*										
113 – 121																						*									
105 – 112																							*								
100 – 104																								*							

Note1: The luminous intensity ranking is determined by the first, second and third digits from the right in the LED print head (i.e. in ---XX122, 122 is the luminous intensity ranking.)

Note2: When the head label of the replaced LED print head (new part) is the same as that of the used LED print head (old part), you do not always have to set the LED print head width by technical function No.28. (Refer to table 2.9.1, TF No.28)

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5.2.1 OKIOFFICE44/OKIFAX 4100 Confirmation Items

The clock frequency and power voltage of the machine are not possible to adjust in the field.
However, their measurement procedures are described here for confirmation of clock frequency and each voltage.

1) Clock Frequency

- Measurement point: R44 board; LC2-3 pin and ground terminal
- Specification: 20.000 MHz ± 50 PPM

Note: If the counter does not read with 20.000 MHz, replace with a new crystal oscillator (X1).

2) +5V DC Voltage (SUB)

- Measurement point: R44 board; CN7-12 pin and ground terminal
- Specification: +5V ± 4% (+4.5V to 5.2V)

3) +5V DC Voltage

- Measurement point: R44 board; CN7-1, 2 & 3 pin and ground terminal
- Specification: +5V ± 4% (+4.5V to 5.2V)

4) –8V DC Voltage

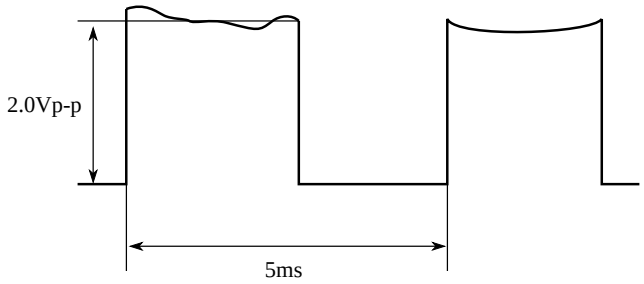
- Measurement point: R44 board; CN7-9 pin and ground terminal
- Specification: –15V to –6.5V

5) +30V DC Voltage

- Measurement point: R44 board; CN7-8 pin and ground terminal
- Specification: +24V to +45V

6) Contact Image Sensor Output (SIG signal)

- Measurement point: R44 board; CN5-1 pin and ground terminal
- Specification: A waveform sample is shown below.
- Test chart: White sheet (A4 size)



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5.2.2 OKIOFFICE44/OKIFAX 4100 Measurement

1) Remove the AC power cord.
2) Carry out the disassembly procedure up to Cover assembly-top, Frame assembly-scanner, and Unit-printer.
   (Refer to the Mechanical Disassembly and Reassembly in Chapter 4-1.)
3) Connect extension cables to the R44 board.
4) Connect the frequency counter (for clock frequency), digital voltmeter (for power voltage) and Oscilloscope (for SIG signal). See figure 5.2.1.
5) Reconnect the AC power code.
   Main power supply is set to "ON" (PC1 ON) by loading the document on the cover-top.
   (except +5V SUB)
6) Measurement
7) Remove the AC power code.
8) Reverse the disassembly procedures.

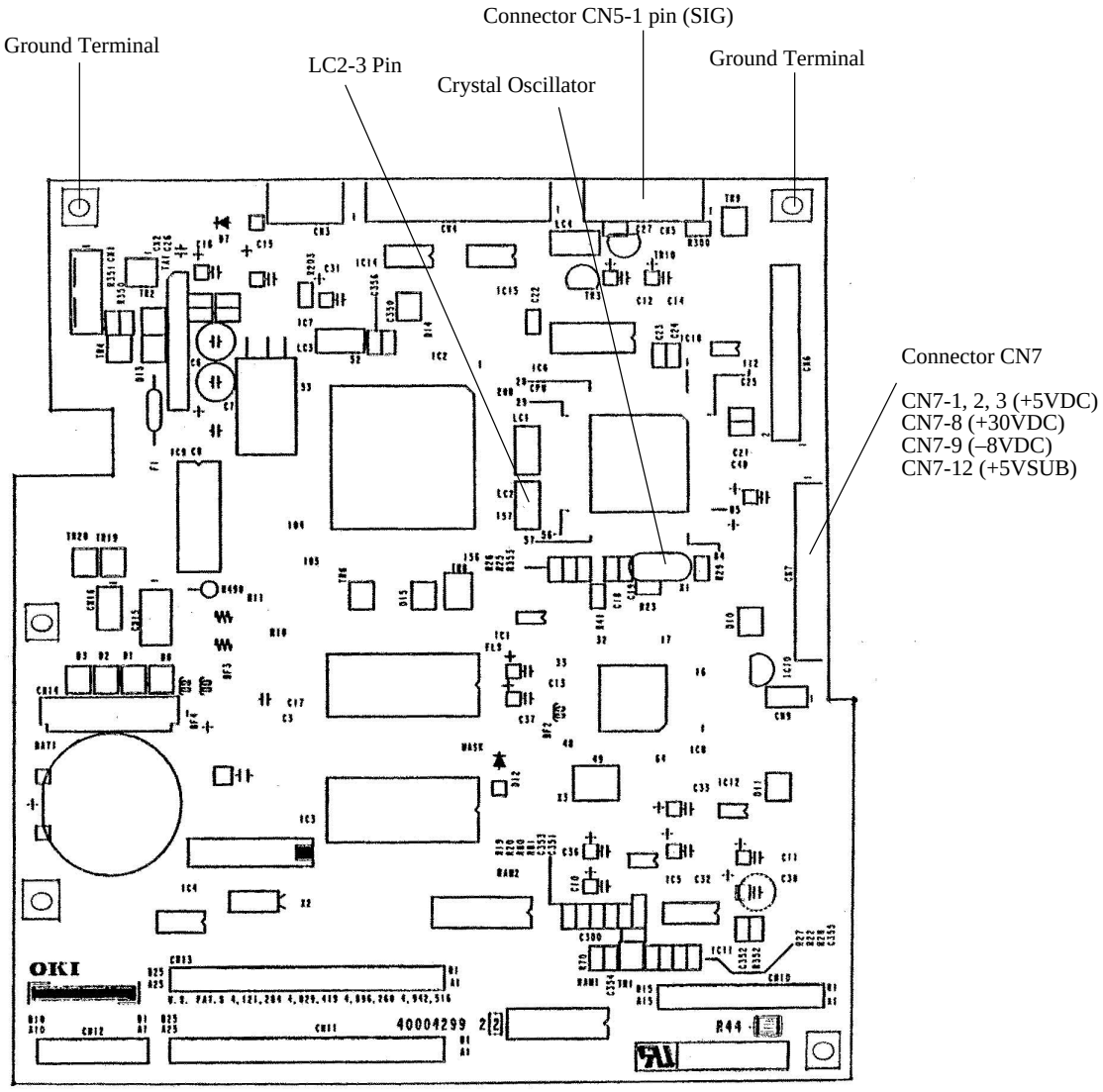

Figure 5.2.1 Measurement Points on R44 Board

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5.3.1 OKIFAX 5000 Series Confirmation Items

The clock frequency and power voltage of the machine are not possible to adjust in the field.
However, their measurement procedures are described here for confirmation of clock frequency and each voltage.

1) Clock Frequency

- Measurement point: M17 board; LC2-3 pin and ground terminal
- Specification: 20.000 MHz ± 50 PPM

Note: If the counter does not read with 20.000 MHz, replace with a new crystal oscillator (X1).

2) +5V DC Voltage (SUB)

- Measurement point: M17 board; CN16-1 pin and ground terminal
- Specification: +5V ± 4% (+4.5V to 5.2V)

3) +5V DC Voltage

- Measurement point: M17 board; CN1-B12/A13/B13 pin and ground terminal
- Specification: +5V ± 4% (+4.5V to 5.2V)

4) +8V DC Voltage

- Measurement point: M17 board; CN1-A14 pin and ground terminal
- Specification: +6.5V to 15V

5) –8V DC Voltage

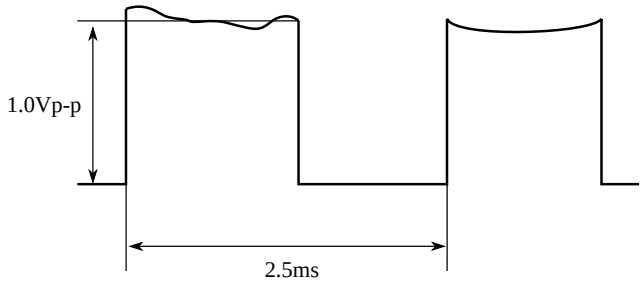
- Measurement point: M17 board; CN1-B14 pin and ground terminal
- Specification: –15V to –6.5V

6) +30V DC Voltage

- Measurement point: M17 board; CN1-A15/B15 pin and ground terminal
- Specification: +24V to +45V

7) Contact Image Sensor Output (SIG signal)

- Measurement point: M17 board; CN10-1 pin and ground terminal
- Specification: A waveform sample is shown below.
- Test chart: White sheet (A4 size)



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5.3.2 OKIFAX 5000 Series Measurement

1) Turn AC power OFF.

2) Carry out the disassembly procedure up to Main Cover and Scanner Unit removal.
(Refer to the Mechanical Disassembly and Reassembly in Chapter 4-2.)

3) Connect extension cables to the M17 board.

4) Connect the frequency counter (for clock frequency), digital voltmeter (for power voltage) and Oscilloscope (for SIG signal). See figure 5.3.1.

5) Turn AC power ON.
Main power supply is set to "ON" (PC1 ON) by loading the document on the cover-top.
(except +5V SUB)

6) Measurement

7) Turn AC power OFF.

8) Reverse the disassembly procedures.

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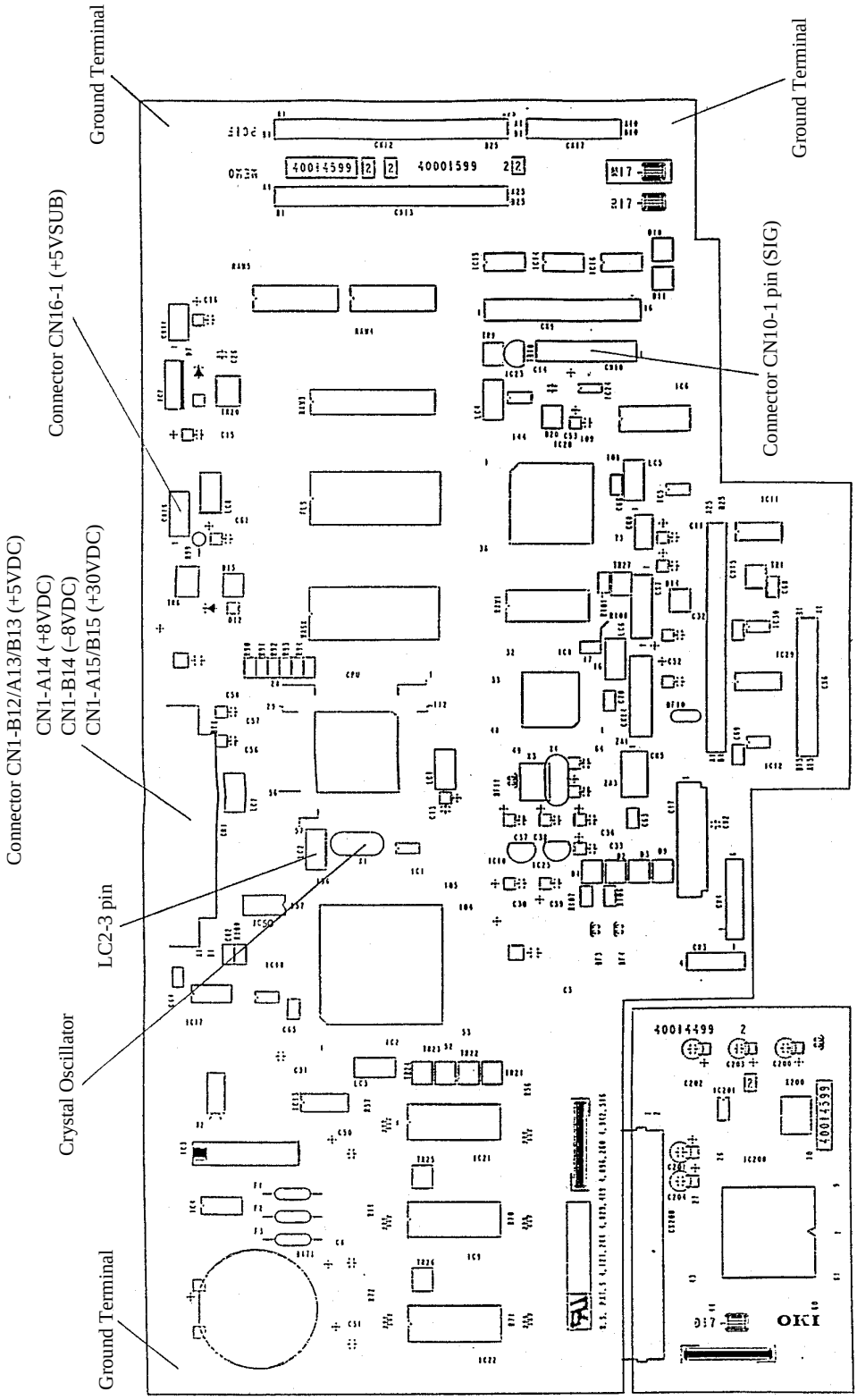

Figure 5.3.1 Measurement Points on M17 Board

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6. CLEANING AND MAINTENANCE

6.1 Replacement of Consumable Parts

The user (or service personnel) is required to replace the following items as consumable parts.

(1) User side

No.	Part name	Expected Use Before Replacement	Reference Item No. in Fig.6.1.1
1	Toner Cartrige	1250 sheets/cartrige for OKIOFFICE44/OKIFAX 4100 2500 sheets/cartrige for OKIFAX 5000 series (ITU-T document sample No.1) (For the second or later cartridge to a new I/D Unit) * The first toner cartridge installed in a new I/D unit will have a decreased yield.	(1)
2	I/D Unit (Image drum unit)	4,500 sheets: 1 page/job, 8,000 sheets: 3 page/job for OKIOFFICE44/OKIFAX 4100 11,000 sheets/unit for OKIFAX 5000 series	(2)

(2) Service personnel side

No.	Part name	Expected Use Before Replacement	Reference Item No. in Fig.6.2.1
1	Fuser Unit	180,000 sheets for OKIFAX5000 Series. 30,000 sheets for OKIOFFICE44/OKIFAX4100.	(3)
2	Separation Rubber	The Separation Rubber will not require replacement for at least 30,000 documents fed.	(4)

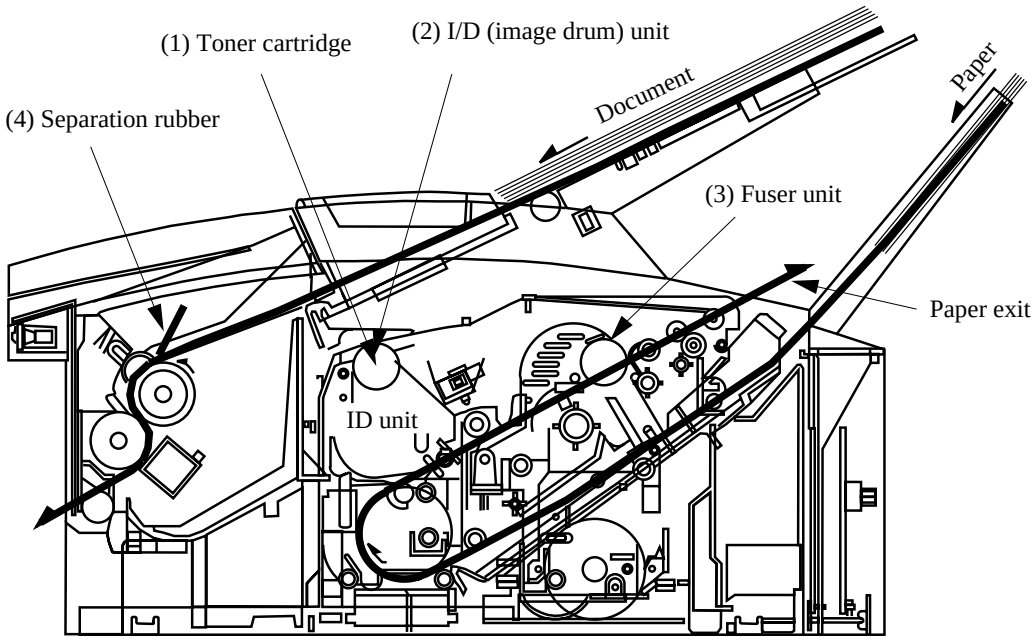

Figure 6.1.1 Consumable Parts for OKIOFFICE44/OKIFAX 4100

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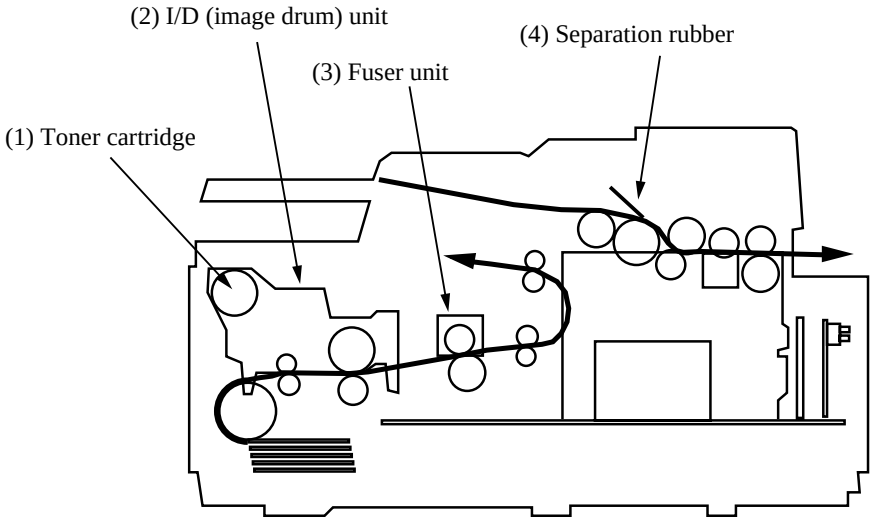

Figure 6.1.2 Consumable Parts for OKIFAX 5000 Series

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(3) Others

Table 6.1.1 Reliability

No.	Item	Specifications
1	Document feeder	Jam occurrence and misfeeds in the automatic document feeder will be less than one in 500 operations for all specified documents.
2	Recording paper feeder	Jam occurrence in the automatic paper feeder will be less than one in 1,500 operations and misfeeds will be less than one in 500 operations for all specified recording paper.
3	Battery	The life of the battery is five years. (except for OKIOFFICE44/ OKIFAX 4100) Lithium battery. Not rechargeable.
4	MTBF	The MTBF for the overall machine will exceed 3,000 hours of actual operation. The MTBF will be measured at a confidence level of 95% under controlled laboratory conditions. The MTBF will be based on 50% transmit and 50% receive activities.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

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6.2 Routine Inspection

6.2.1 Routine inspection for OKIOFFICE44/OKIFAX 4100

Basically, the routine inspection of following items is performed about half-yearly (or every one year) after the machine is installed. The description of routine inspection is shown in Table 6.2.1.

Table 6.2.1 Routine Inspection

No.	Part name	Expected Use Before Replacement	Reference Item No. in Fig.6.2.1
1	Roller-scan	Clean with water.	(1)
2	Roller-ADF	Clean with water. If the surface of this roller becomes dirty and the dirt causes misfeeding of documents, perform this cleaning.	(2)
3	Contact Image Sensor	Check for accumulation of paper dust, etc. Clean with ethyl alcohol if necessary.	(3)
4	Separation Rubber	Clean with water. If this rubber is worn out, replace this rubber. (every one year)	(4)
5	LED print head	Clean the surface of the head by moving the tissue paper back and forth several times.	(5)
6	Printer unit	Clean the inside of the printer unit by using a cloth moisturized with cold water.	
7	Lubrication	Apply silicone oil to the following parts: a. Gears (every one year)	
8	Cleaning	Remove materials that have fallen from outside, if any.	

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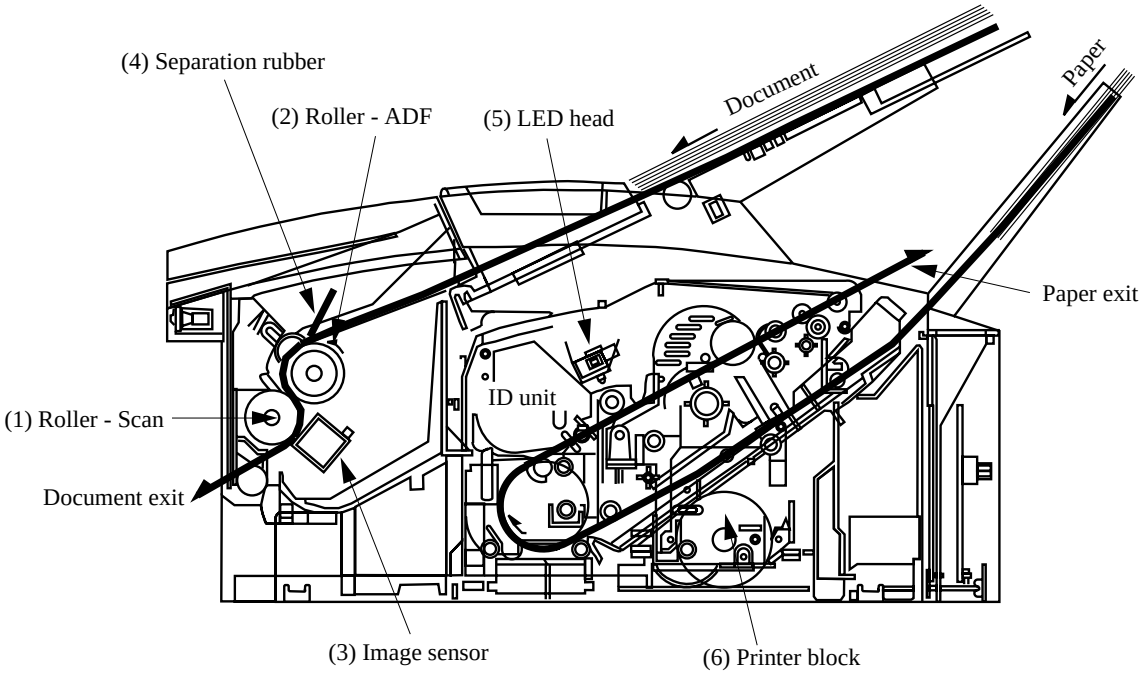

Fifure 6.2.1 Parts of Routine Inspection for OKIOFFICE44/OKIFAX 4100

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6.2.2 Routine inspection for OKIFAX 5000 series

Basically, the routine inspection of following items is performed about half-yearly (or every one year) after the machine is installed. The description of routine inspection is shown in Table 6.2.2.

Table 6.2.2 Routine Inspection for OKIFAX 5000 Series

No.	Part name	Expected Use Before Replacement	Reference Item No. in Fig.6.2.2
1	Scan Roller	Clean with water.	(1)
2	Feed Rollers No. 1 and No. 2	Clean with water. If the surface of these rollers becomes dirty and the dirt causes the transmitted image or the local copied image to expand vertically, perform this cleaning.	(2)
3	Sub Roller	Clean with water.	(3)
4	Pinch Rollers	Clean with ethyl alcohol.	(4)
5	ADF Roller	Clean with water. If the surface of this roller becomes dirty and the dirt causes misfeeding of documents, perform this cleaning.	(5)
6	Contact Image Sensor	Check for accumulation of paper dust, etc. Clean with ethyl alcohol if necessary.	(6)
7	Separation Rubber	Clean with water. If this rubber is worn out, replace this rubber. (every one year)	(7)
8	LED print head	Clean the surface of the head by moving the tissue paper back and forth several times.	(8)
9	Printer unit	Clean the inside of the printer unit by using a cloth moisturized with cold water.	
10	Lubrication	Apply silicone oil to the following parts: a. Gears (every one year)	
11	Cleaning	Remove materials that have fallen from outside, if any.	

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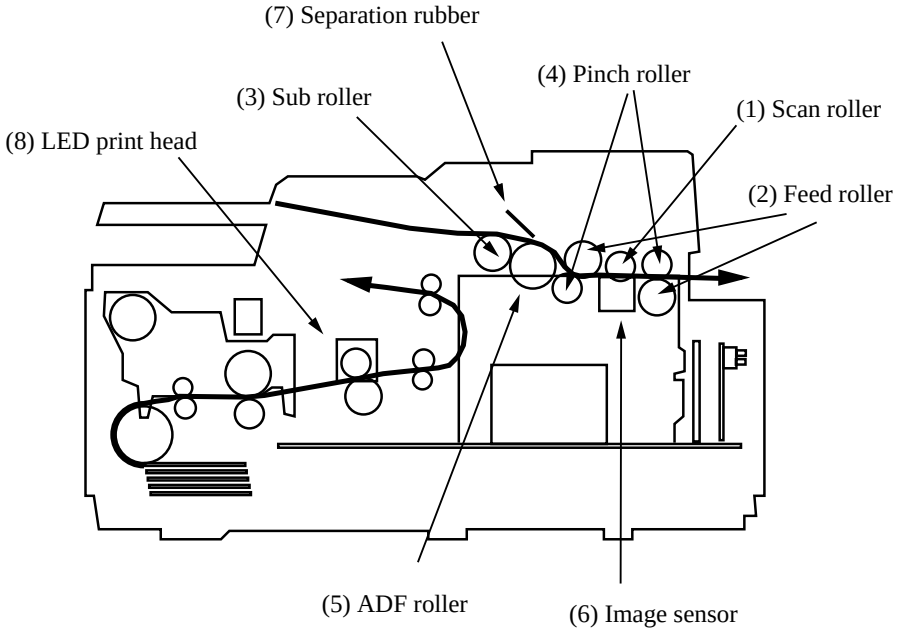

Fifure 6.2.2 Parts of Routine Inspection for OKIFAX 5000 Series

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6.3 Printer Counter Display/Clear

Note: The fonts displayed on the LCD operation panel may differ from the fonts written this manual.

1. Purpose

A user can clear the image drum unit and check some of the counters (such as the print counter, scan counter) by using the ← key or → key.

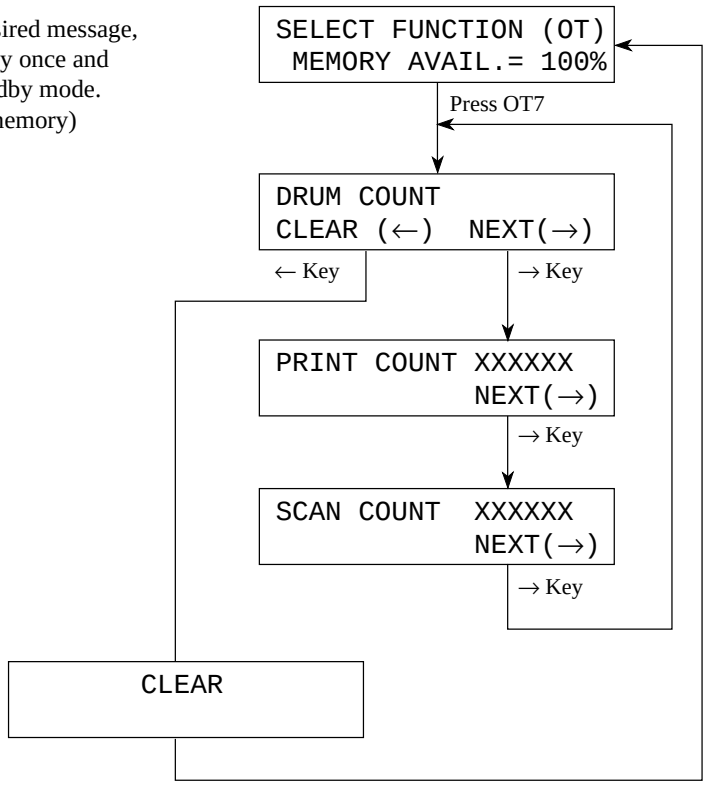
2. Procedure

The following shows the case when the service bit has been set OFF.

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No.7 in the standby mode. (In case of no message in the memory)
- Press [←] key or [→] key.

The display shows:



Note: Clear Operation

After having cleared the drum counter, warning message will be disappeared.

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6.4 Printer Counter Display/Clear

1. Purpose

The service personnel can clear and check the following data:

- Image Drum
- Toner
- Image Drum (Total)
- Print
- Scan

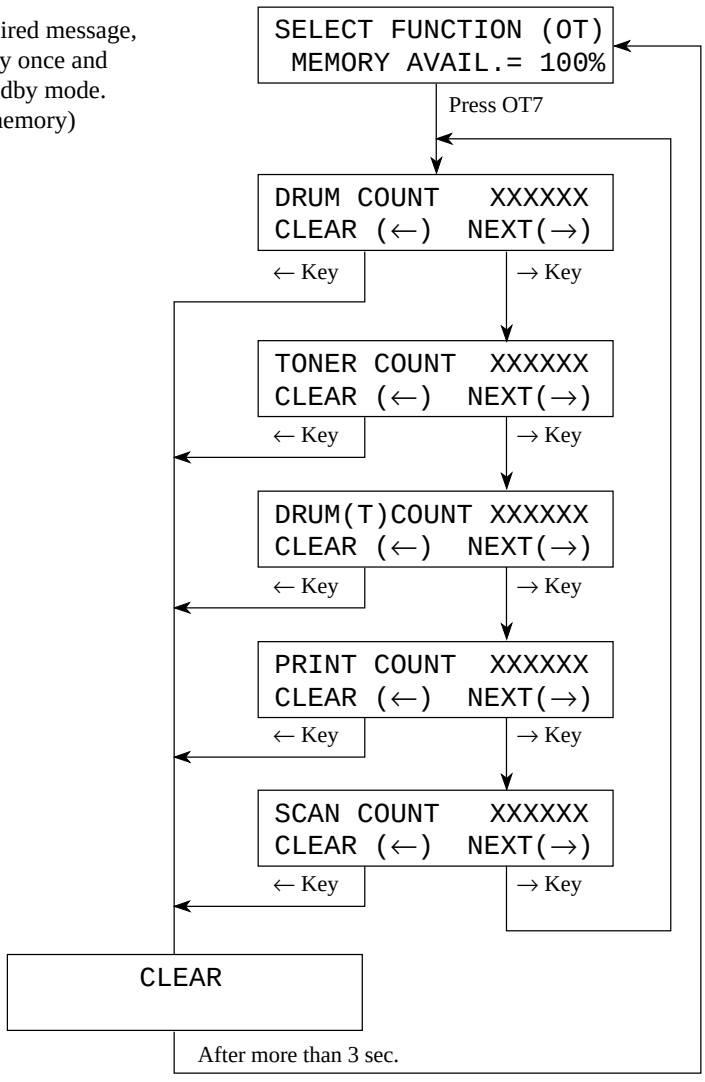
2. Procedure

The following shows the case when the service bit has been set ON.

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 7 in the standby mode. (In case of no message in the memory)
- Press [←] key or [→] key.

The display shows:



Note: DRUM (T) will be used to know the total in-use life of the machine.

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6.5 Self-diagnosis Test

1. Purpose

To check ROMs, RAMs and printing function.

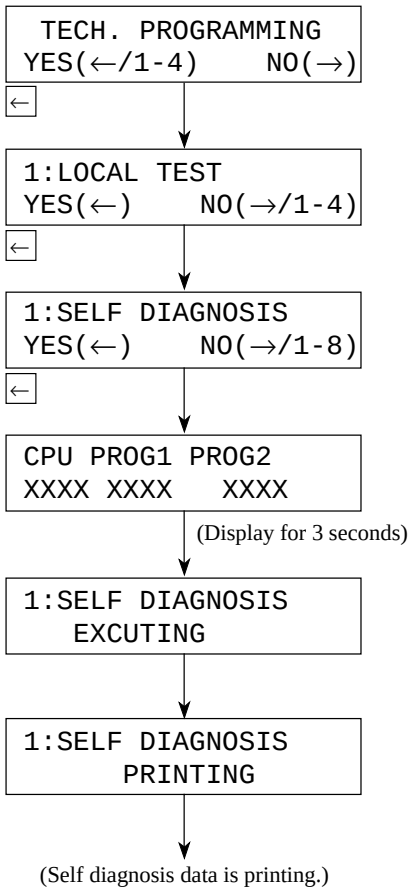
2. Procedure

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in the memory)
- Press ← key.
- Press ← key.
- Press ← key to activate self-diagnosis.

(Figure 6.5.1 shows the printed data.)

The display shows:



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- Test report will be automatically printed out with the following items:

In case of OKIFAX 4100

a)	Pattern 1	All white (32 lines)	
b)	Pattern 2	Stair pattern (32 lines in each step)	
c)	Pattern 3	All black (32 lines)	
d)	Pattern 4	Alternate printing of black dots and white dots (32 lines x 2)	
e)	Pattern 5	All white (32 lines)	
f)	CPU-ROM VERSION		
	CPU-ROM	In case CPU-ROM is good.	HASH OK
		In case CPU-ROM is not good.	HASH NG
	CPU-RAM	In case CPU-RAM is good.	OK
		In case CPU-RAM is not good.	NG
g)	PROG1 VERSION		
	PROG1	In case PROG1 is good.	HASH OK
		In case PROG1 is not good.	HASH NG
h)	PROG2 VERSION		
	PROG2	In case PROG2 is good.	HASH OK
i)	LANGUAGE VERSION		
	LANGUAGE	In case LANGUAGE is good.	HASH OK
		In case LANGUAGE is not good.	HASH NG
j)	DEFAULT VERSION		
	DEFAULT	In case DEFAULT is good.	HASH OK
		In case DEFAULT is not good.	HASH NG
k)	RAM1	In case RAMi is good.	OK
		In case RAMi is not good.	NG
		("1" is RAM's number)	
l)	OPT-RAM1	In case OPT-RAM1 is good.	OK
		In case OPT-RAM1 is not good.	NG
m)	OPT-I/F	In case OPT-I/F is good.	PARALLEL
		In case OPT-I/F is not good.	(ALL BLANK)

- Figure 6.5.1 shows a printed sample.

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- Test report will be automatically printed out with the following items:

In case of OKIFAX 5000 series

a)	Pattern 1	All white (32 lines)	
b)	Pattern 2	Stair pattern (32 lines in each step)	
c)	Pattern 4	All black (32 lines)	
d)	Pattern 4	Alternate printing of black dots and white dots (32 lines x 2)	
e)	Pattern 5	All white (32 lines)	
f)	CPU-ROM VERSION		
	CPU-ROM	In case CPU-ROM is good.	HASH OK
		In case CPU-ROM is not good.	HASH NG
	CPU-RAM	In case CPU-RAM is good.	OK
		In case CPU-RAM is not good.	NG
g)	PROG1 VERSION		
	PROG1	In case PROG1 is good.	HASH OK
h)	PROG2 VERSION		
	PROG2	In case PROG2 is good.	HASH OK
i)	LANGUAGE VERSION		
	LANGUAGE	In case LANGUAGE is good.	HASH OK
		In case LANGUAGE is not good.	HASH NG
j)	DEFAULT VERSION		
	DEFAULT	In case DEFAULT is good.	HASH OK
		In case DEFAULT is not good.	HASH NG
k)	RAM1	In case RAMi is good.	OK
	RAM2	In case RAMi is not good. ("i" is RAM's number)	NG
l)	OPT-RAM1	In case OPT-RAM1 is good.	OK
		In case OPT-RAM1 is not good.	NG
m)	OPT-IF	In case OPT-IF is good.	PARALLEL
		In case OPT-I/F is not good.	(ALL BLANK)

- Figure 6.5.1 shows a printed sample.

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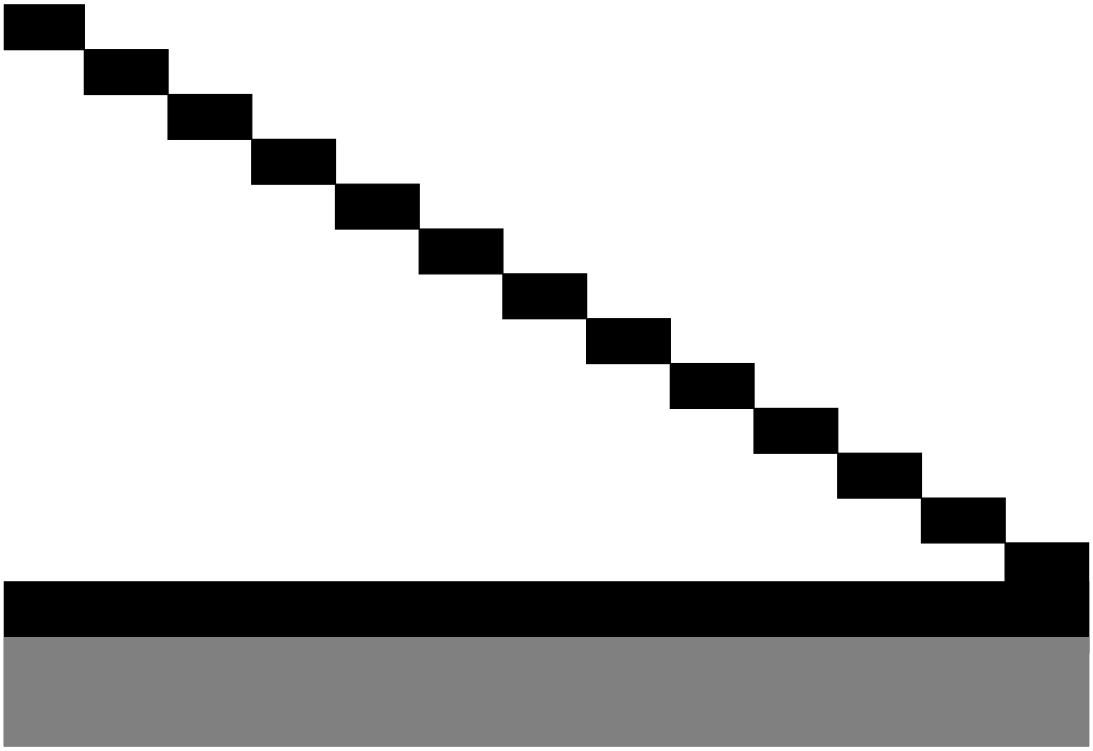

```
    CPU-ROM  VERSION  AA00
             HASH     OK   DACD
    CPU-RAM           OK
    PROG1    VERSION  AA00
    PROG1    HASH     OK   3142
    PROG2    VERSION  AA00
    PROG2    HASH     OK   1234

    LANGUAGE VERSION  LL10
             HASH     OK   3F06
    DEFAULT  VERSION  DD10
             HASH     OK   A683
 *1 RAM1             1M   OK
 *2 RAM2             OK
 *3 OPT-RAM1         1M   OK
 *3 OPT-I/F          PARALLEL
    DEFAULT TYPE     01   07/01/96


*1 marked item is shown for condition of all RAM except EXCEED RAM.
*2 marked item is shown to SRAM for EXCEED.
*3 marked items are option.
```

Figure 6.5.1 Self-diagnosis Data

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6.6 Sensor Calibration Test

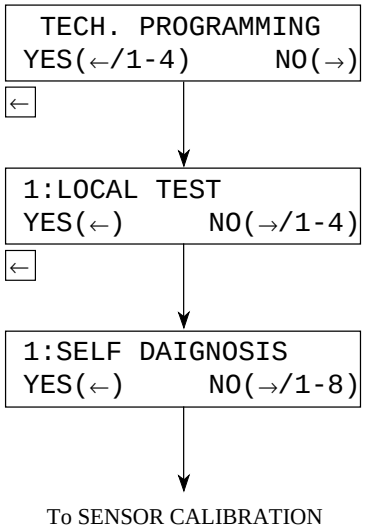
1. Purpose

To adjust the linearity of output levels of contact image sensor.

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in the memory)
- Press [←] key.
- Press [←] key.

The display shows:



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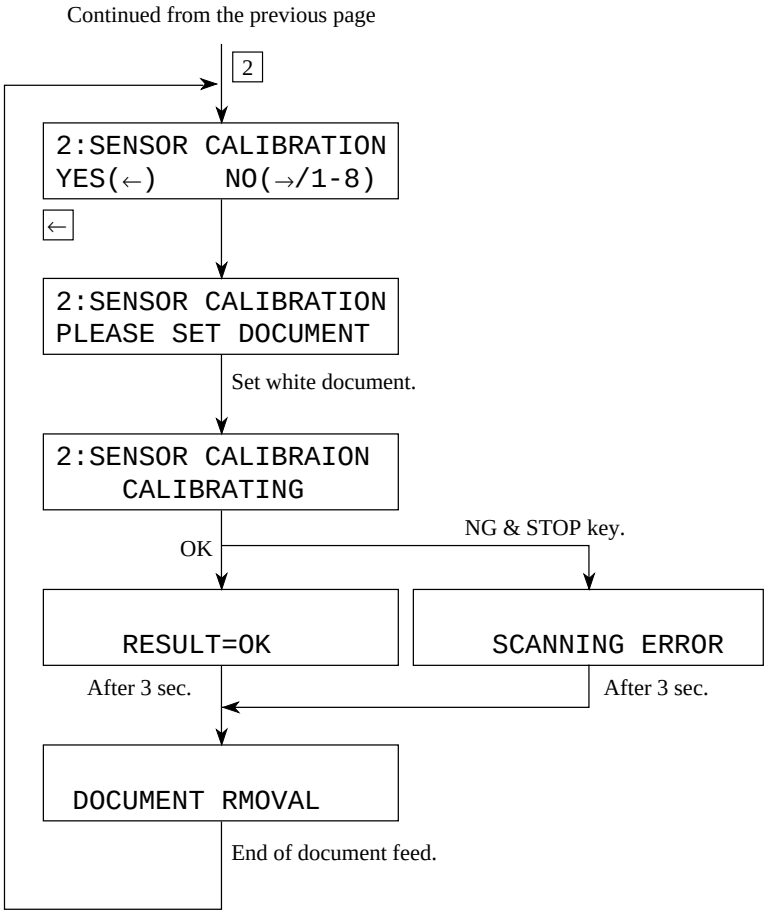
Operations:

- Enter "2".
- Press [←] key.
- Load document(s).
  For adjustment of levels, use white plain bond paper(s) of NA Letter or A4 size.
- Observe and check the document feed operation.
  Check that the followings do not occur:
  - Document skew.
  - Multiple document feeding.
  - No feeding.

The display shows:



Note: After adjustment of levels, check the copy quality by copying test charts or documents.

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6.7 LED Test

1. Purpose

To check all LEDs on operation panel by lighting.

2. Procedure

Operations: **The display shows:**

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in memory)

```
TECH. PROGRAMMING ?
YES(←/1-4)     NO(→)
```

- Press [←] key.

```
1:LOCAL TEST
YES(←)     NO(→/1-4)
```

- Press [←] key.

```
1:SELF DIAGNOSIS
YES(←)     NO(→/1-8)
```

- Enter "3".

[3]

```
3:LED TEST
YES(←)     NO(→/1-8)
```

- Press [←] key.

```
3:LED TEST
      TESTING
```

- Observe and check that LEDs are blinking.
  - All LEDs will be sequentially turned on for one second in the following order.

(Start)

→ ALARM → DARK → NORMAL → LIGHT → STD → FINE

all LED off ← all LED on ← PHOTO ← EX.FINE ←

1 second interval.

- After the checking, press STOP key.

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6.8 Tone Send Test

1. Purpose

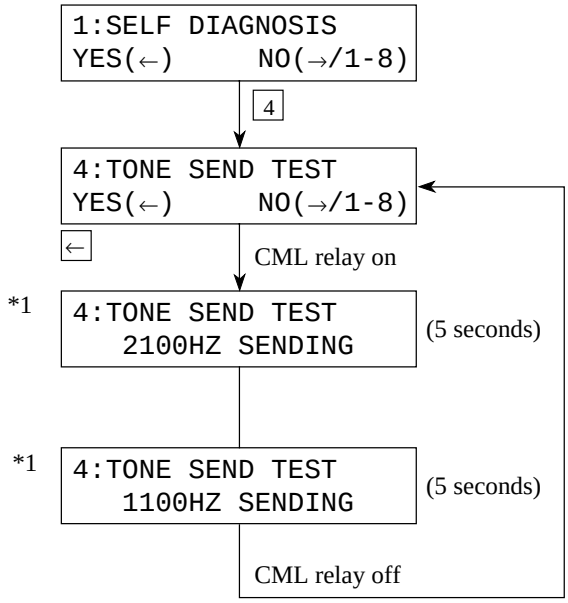
To send the G3 tonal frequencies to the line.

2. Procedure

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and [←] key twice. (In case of no message in memory)
- Enter "4".
- Press [←] key.
- After the checking, press STOP key or end of the transmission.

The display shows:



*1: When indicating "2100Hz or 1100Hz SENDING", extend the tone send test for 30 more seconds by pressing the START key.

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6.9 High-speed Modem Send Test

1. Purpose

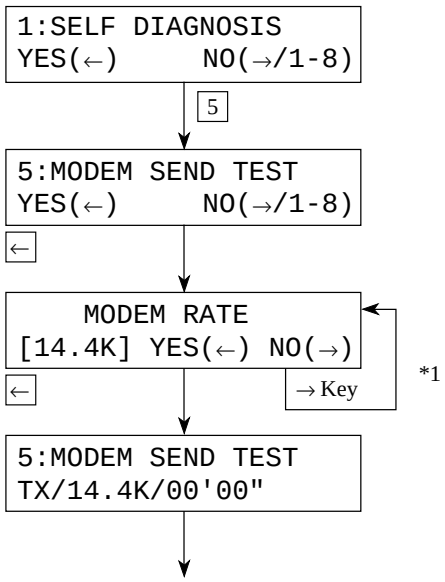
To check the telephone line quality in combination with a remote station programmed to the high-speed modem receive test mode.

2. Procedure

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and [←] key twice. (In case of no message in memory)
- Enter "5".
- Press [←] key.
- Set MODEM rate by [→] key.
- Press [←] key.
  All zero data will be continuously sent.
- After the test, press STOP key.

The display shows:



(For detail, see Fig. 6.9.1)

*1: → 33.6K (OKIFAX 5500/5600) → 28.8K (OKIFAX 5500/5600) → 14.4K → 12.0K → 9.6KT (V.17) →
← 0.3K ← 2.4K ← 4.8K ← 7.2K (V.29) ← 9.6K (V.29) ← 7.2KT (V.17) ←

33.6K and 28.8K are skipped for the MODEM without 33.6/28.8K bps function.

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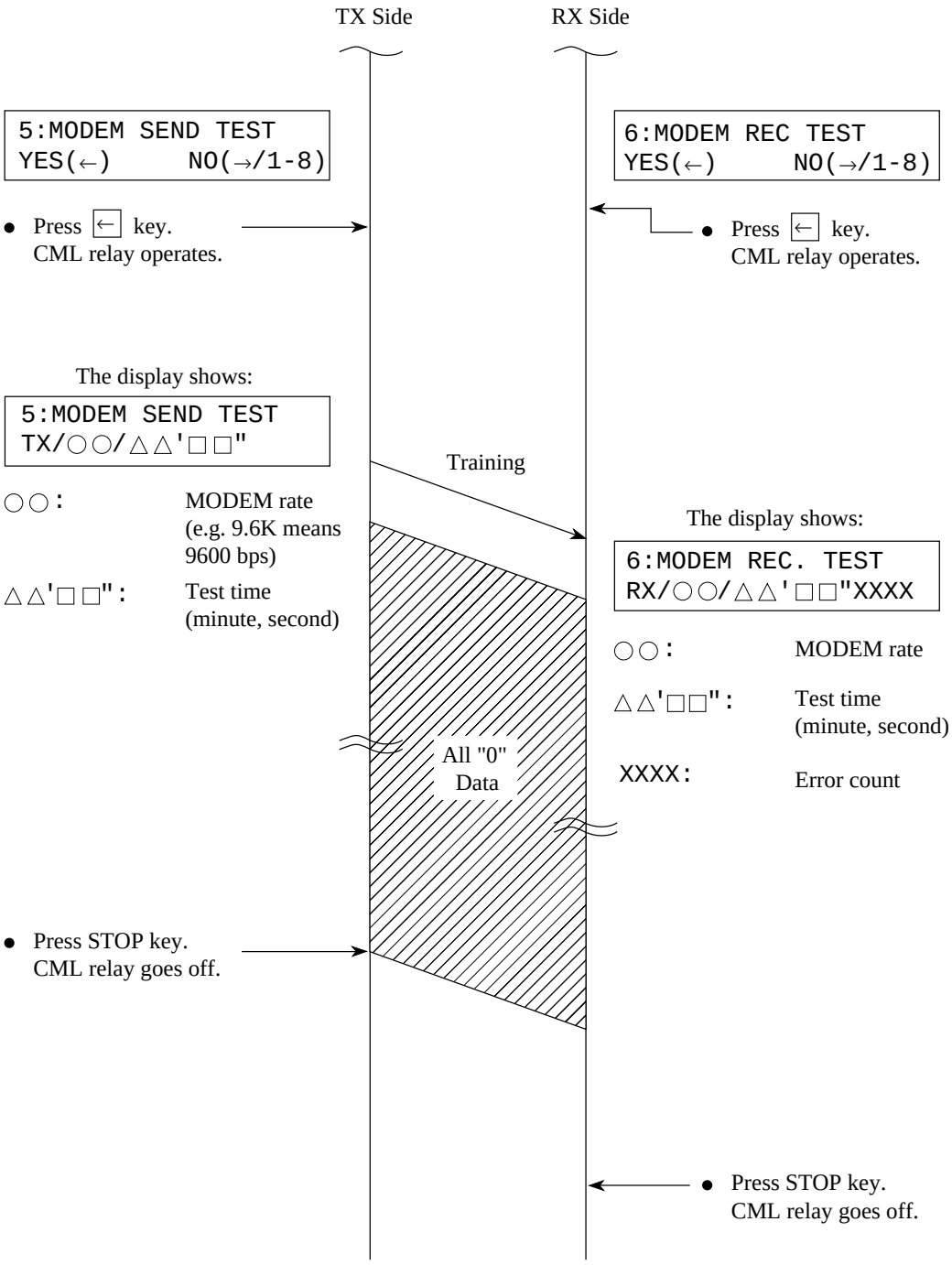

Figure 6.9.1 High-speed Modem Send and Receive Test

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6.10 High-speed Modem Receive Test

1. Purpose

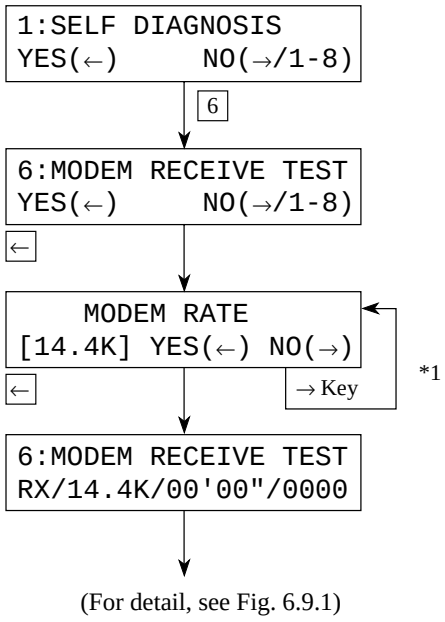
To check the telephone line quality in combination with a remote station programmed to the high-speed modem send test mode.

2. Procedure

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and [←] key twice. (In case of no message in memory)
- Enter 6.
- Press [←] key.
- Set MODEM rate by [→] key.
- Press [←] key.
- After the test, press STOP key.

The display shows:



(For detail, see Fig. 6.9.1)

*1: → 14.4K → 12.0K → 9.6KT (V.17) → 7.2KT (V.17) → 9.6K (V.29) → 7.2K (V.29) → 4.8K → 2.4K →

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6.11 MF Send Test

1. Purpose

To send the multi-frequencies of tone dialling to the line.

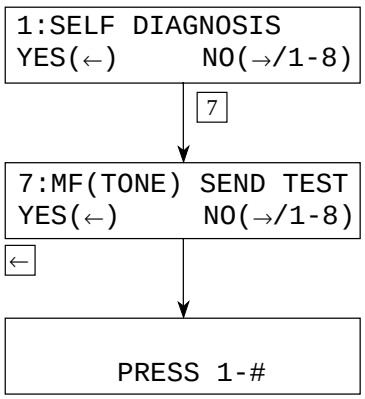
2. Procedure

Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and ← key twice. (In case of no message in memory)
- Enter 7.
- Press ← key.
- Press 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, * or # key. MF tone corresponding to the key pressed will be sent until the next key is pressed.
- After the test, press STOP key.
  Frequencies of MF tones are as follows:

1	697 Hz/1209 Hz
2	697 Hz/1366 Hz
3	697 Hz/1477 Hz
4	770 Hz/1209 Hz
5	770 Hz/1366 Hz
6	770 Hz/1477 Hz
7	852 Hz/1209 Hz
8	852 Hz/1366 Hz
9	852 Hz/1477 Hz
0	941 Hz/1366 Hz
*	941 Hz/1209 Hz
#	941 Hz/1477 Hz

The display shows:



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6.12 Tone (TEL/FAX)

1. Purpose

To check the pseudo-ring back tone of TEL/FAX automatic switching.

2. Procedure

Operations:	The display shows:
• To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and [←] key twice. (In case of no message in memory)	1:SELF DIAGNOSIS YES(←) NO(→/1-8)
• Enter 8.	[8] 8:TONE(TEL/FAX) TEST YES(←) NO(→/1-8)
• Press [←] key.	[←] 8:TONE(TEL/FAX) TEST TONE SENDING
• After the test, press STOP key.	

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6.13 Protocol Dump Data Printing

1. Purpose

To analyze the transmitted/received G3 protocol signals.

2. Procedure

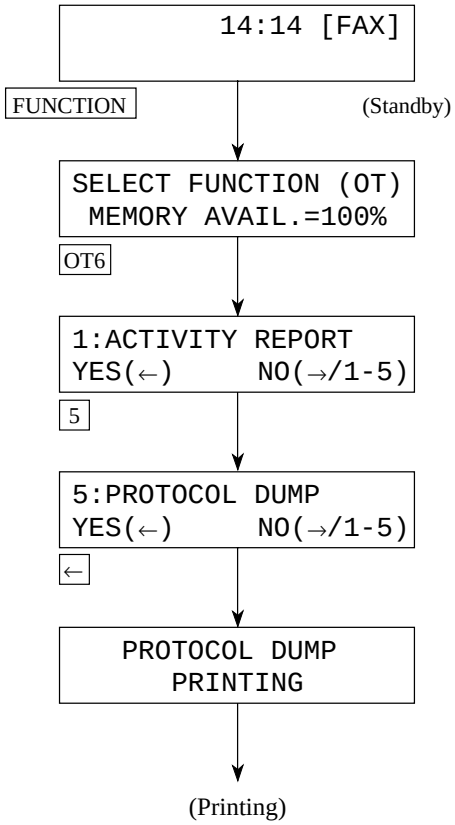
- Manual print-out of the last communication.

(a) Manual print-out

Operations:

- Press SELECT FUNCTION key, provided that the service bit is ON.
- Press one-touch key No.6
- Enter 5.
- Press ← key.

The display shows:



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3. Dump data description

1) Data sample
   Figure shows the printed data as a sample.

PROTOCOL DUMP

```
                                                                07/01/96  09:21
                                                                ID=OKI SHIBAURA

      DATE     TIME     S,R-TIME      DISTANT STATION ID    MODE     PAGES     RESULT

      07/01    09:16    00'46"     OKI HONJO                CALLING  01        OK       0000

FCF
TX  |          C2 C4    FD F4       DF
RX  | 04 02 01       21        31
----+-------------------------------------------------------------------------------
TX  |
RX  |

TX
DIS                                                DTC
00 00 00 00 00 00 00                               00 00 00 00 00 00 00
DCS
00 00 00 00 00 00 00 00 00
NSF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
NSS
FF C8 C4 00 00 84 80 30 40 E4 10 40 B8 39 20 0C 0C 0C 0C 30 82 4A AA 82 42 92 12 CA 04 92 D2 F2
80 40 80 10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
NSC
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00
CM              JM
00 00 00 00     00 00 00 00
RX
DIS
FF CB 01 00 73 17 22 00 00 00 00 00 00 00 00 00 00 00 00 00
DTC
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DCS
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
NSF
FF C0 04 00 00 84 80 08 40 F4 10 40 F9 7D 20 0C 0C 0C 0C 90 F2 52 72 F2 12 04 92 D2 F2 80 F0 80
40 80 50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
NSS
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
NSC
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
CM                    JM
00 00 00 00 00  00       00 00 00 00 00 00
V 34
SYMBOL  RATE(SPS)      = 3429
DATA SIGNALLING RATE(BPS) = 228
RSEULT  00
TX
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
PX
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
RECEIVED CSI/CIG/TSI
FF C0 02 0C 0C 2C AC 04 4C 4C 04 AC 9C 2C 0C 04 04 04 04 04 04 04 04
TRANSMITTED CSI/CIG/TSI
FF C0 C2 2C CC 4C 8C 04 6C EC 2C AC 04 CC 0C 04 04 04 04 04 04 04 04
```

Figure 6.13.1 Protocol Dump Data (Sample: at transmitter side)

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4. Analysis from the data

The printed out data permits to analyze G3 facsimile communication protocol signals between two facsimile machines. Figure 6.13.2 shows the result of an analysis on the printed data referring to Figure 6.13.1 (Protocol dump data).

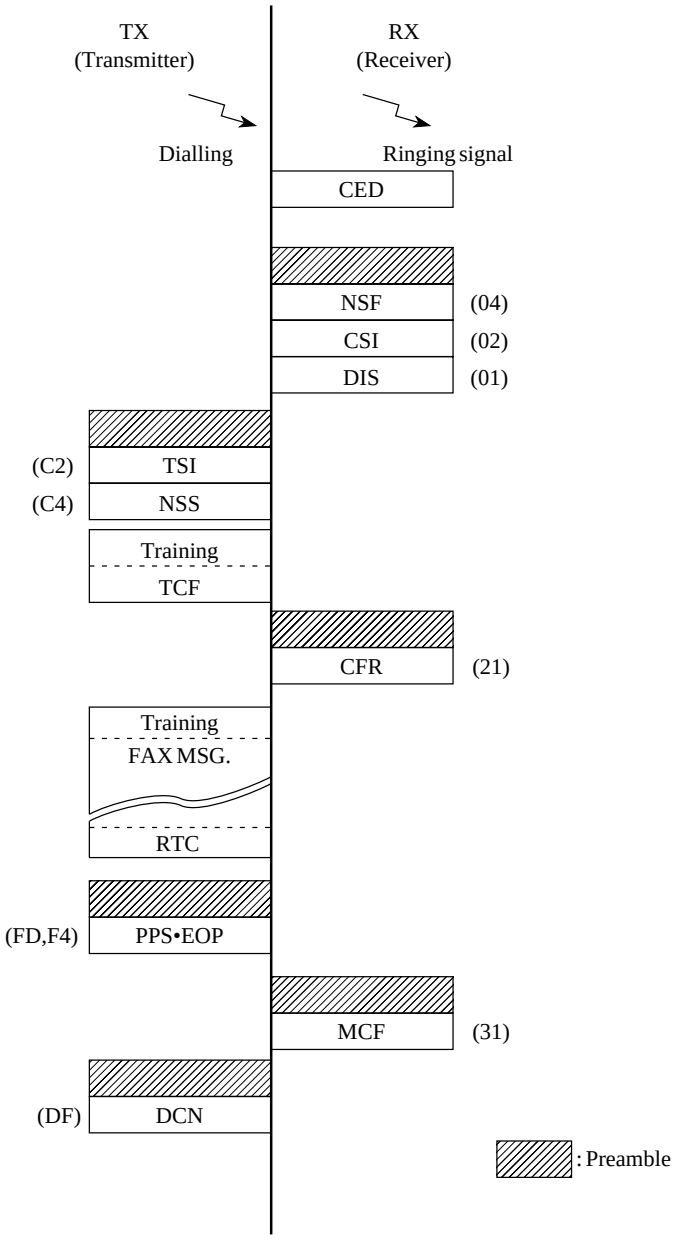

Figure 6.13.2 Result of Analysis (Example)

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5. FCF (Facsimile Control Field) conversion table

Table 6.14.1 shows all FCF signals which are needed to analyze the printed out protocol dump data.

Some signals have two different hexadecimal codes in accordance with the calling party or called party.

Table 6.14.1 FCF Signals Conversion Table

Abbreviation	Hex. Codes		Description of function
NSF	04		Non-Standard Facilities
CSI	02		Called Subscriber Identification
DIS	01		Digital Identification Signal
NSC	84		Non-Standard Facilities Command
CIG	82		Calling Subscriber Identification
DTC	81		Digital Transmit Command
NSS	44	C4	Non-Standard Set-Up
TSI	42	C2	Transmitting Subscriber Identification
DCS	41	C1	Digital Command Signal
CFR	21	A1	Confirmation to Receive
MCF	31	B1	Message Confirmation
FTT	22	A2	Failure to Train
MPS	72	F2	Multi-Page Signal
EOM	71	F1	End of Message
EOP	74	F4	End of Procedure
RTP	33	B3	Retrain Positive
RTN	32	B2	Retrain Negative
PIP	35	B5	Procedure Interrupt Positive
PIN	34	B4	Procedure Interrupt Negative
PRI-MPS	7A	FA	Procedure Interrupt-MPS
PRI-EOM	79	F9	Procedure Interrupt-EOM
PRI-EOP	7C	FC	Procedure Interrupt-EOP
DCN	5F	DF	Disconnect
CRP	58	D8	Command Repeat
CTC	48	C8	Continue to Correct
CTR	23	A3	Response to Continue to Correct
EOR	73	F3	End of Retransmission
ERR	38	B8	Response to End of Retransmission
FCD	60		Facsimile Coded Data
PPS	7D	FD	Partial Page Signal
PPR	3D	BD	Partial Page Request
RCP	61		Return to Control for Partial Page
RNR	37	B7	Receiver not Ready
RR	76	F6	Receiver Ready

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6.14 System Reset

1. Purpose

To clear or initialize the following data:
(a) Location data
(b) Configuration data (default)

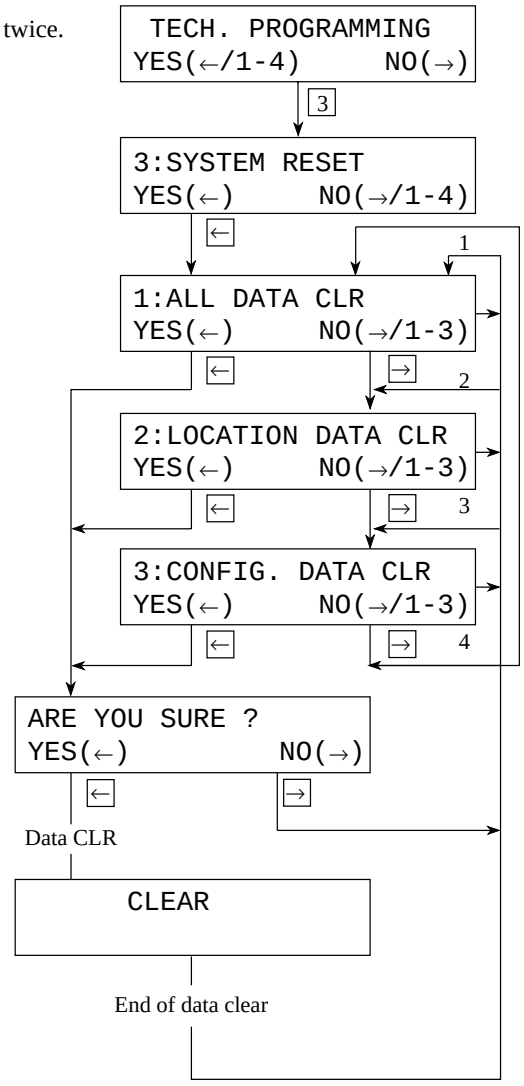
2. Procedure

Operations:

- Press SELECT FUNCTION key, COPY key twice. (In case of no message in the memory)
- Enter 3.
- To bring the LCD up to the desired message, press [←] key and [→] key.

Note: ALL DATA CLEAR is to clear or initialize (a) to (b).

The display shows:



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6.15 Service Code

1) The service code can be printed on Activity Report to recognize the result of each communication.

2) The activity report indicates the code ”0000", should a communication terminates on normal status as a service code.

3) The activity report indicates one of the codes of “90XX”, should a communication terminates on abnormal status, as an error code.

4) Besides the above codes of “90XX”, the following codes are prepared for identifying an abnormal status in details.

-21XX: For error codes in Group 3 transmission phase B
-29XX: For error codes in Group 3 reception phase B
-39XX: For error codes in Group 3 reception phase C
-41XX: For error codes in Group 3 transmission phase D
-49XX: For error codes in Group 3 reception phase D

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Table 6.15.1 (1/2) Service Code List

Code	Description
0000	Successful end of communication.
1080	STOP key has been pressed while calling a remote fax.
10A2	Busy tone detected.
14C0	Dial tone not detected.
14C1	Line current not detected.
14C2	Calling-and-waiting for line connection time out.
14C3	Dialling limit time out.
21A0	Received signal other than DIS/DTC.
21A1	Contents of received DIS/DTC are faulty.
21A3	Each time there is no response from the receiver for sending TCF three times.
21A4	TCF fall back is not possible.
21A5	Received signal other than the desired signal in response to sending TCF.
21B0	Transmitter tried to transmit by confidential transmission function but the remote fax has not the capability of confidential reception.
21B1	Transmitter tried to transmit by Broadcast Initiate function but the remote fax has not the broadcast capability.
21C0	In Closed Network setting, TSI/CIG/CSI is either not received or, if received, it is not authorized one.
21E0	Contents of CM/JM are faulty at transmission side.
21E1	Phase 2 time out at transmission side.
21E2	Phase 3 time out at transmission side.
21E3	Training time out of phase B control channel at transmission side.
29B6	In Confidential Reception, the mail box specified by transmitter is not set up and open.
29C1	In closed Network setting, TSI/CSI is either not received or, if received, it is not authorized one.
29E0	Contents of CM/JM are faulty at receive side.
29E1	Phase 2 time out at receive side.
29E2	Phase 3 time out at receive side.
29E3	Training time out of phase B control channel at receive side.
39A0	The number of continuous-error lines have exceeded the specified limit.
39A1	The number of random-error lines have exceeded the specified limit.
39B0	Memory Overflow has occurred while receiving in memory.
39B1	Memory Overflow occurred during Confidential Reception.
39C0	DECODER hardware error. (cannot reproduce picture)

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Table 6.15.1 (2/2) Service Code List

Code	Description
39C1	DECODER hardware error. (cannot detect end of picture)
41A0	There was no response each time in response to the three post commands.
41A6	Received signal other than the desired signal in responce to the post command.
41A9	Fall back in Phase C is not possible.
41C8	T5 time out.
41CE	Received negative signal in response to the post command.
41E0	Control chanel data. Time out in Phase D.
49CC	Received signal other than the desired signal in response to RNR.
49CD	Command not received in response to RNR.
49E0	Data time out of
49E1	Fall back in Phase C is not possible.
60A0	Broadcast completed.
6803	DCN received in response to NSF/DIS without sending a single picture.
9080	Pressed STOP key.
9081	T1 time out.
9082	T2 time out.
9083	T3 time out.
9084	No recording paper.
9087	Document jam.
9088	60-minute or 70-minute time out.
9089	Document length has exceeded its maximum limit.
908E	Recording paper jam.
9090	Received DCN.
90B1	Picture memory hash error.
90C1	Document removed prior to transmission.
90C6	Normal or error-free lines not received for 13 seconds.
90C7	Error frame protocol received.
90D4	Hardware error in transmission system. (response of modem not detected)
90D5	ENCODER error. (Picture storage fault)
90F0	Option (2'nd tray) error.
90F1	Fan motor error.
90F2	Fuser error.
90F3	Recording paper size error.
90F4	Cover open.

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OKIFAX 1050/2350/2450/5200/5300/5500/5600/4100/OKIOFFICE44 Extension cable lists

No.	Oki Parts Number	Description	Remarks	OKIFAX 1050	OKIFAX 2350	OKIFAX 2450	OKIFAX 5200/5300	OKIFAX 5500/5600	OKIOFFICE44 OKIFAX 4100
1	4YS4111-5655P001	Extension cable (OPE)		O	O	O	•••	•••	•••
2	4YS4111-5656P001	Extension cable (Sensor)		O	O	O	O	O	O
3	4YS4111-5657P001	Extension cable (PC1, 2)		O	O	O	O	O	O
4	4YS4111-5658P001	Extension cable (Speaker)		O	O	O	O	O	O
5	4YS4111-5659P001	Extension cable (PWU)		O	O	O	O	O	•••
6	4YS4111-5660P001	Extension cable (FAN)		O	O	O	O	O	•••
7	4YS4111-5661P001	Extension cable (S-motor)		O	•••	•••	•••	•••	O
8	4YS4111-5662P001	Extension cable (D-motor)		O	•••	•••	•••	•••	•••
9	4YS4111-5663P001	Extension cable (R-motor)		O	•••	•••	•••	•••	•••
10	4YS4111-5664P001	Extension cable (S-motor)		•••	O	O	O	O	•••
11	4YS4111-5665P001	Extension cable (D-motor)		•••	O	O	O	O	•••
12	4YS4111-5666P001	Extension cable (R-motor)		•••	O	O	O	O	O
13	4YS4111-5667P001	Extension cable (2nd)		•••	O	O	O	O	•••
14	238A1071P0006	SUMI card (LED head)		O	O	O	O	O	O
15	40331401YS	Connection code; extension (OPE)	OPE/MCNT	•••	•••	•••	O	O	O
16	40331501YS	Connection code; extension (MPSU)	MCNT/MPSU (Power)	•••	•••	•••	•••	•••	O
17	40331602YS	Connection code; extension (Heater)	HEATER AC/PSU	•••	•••	•••	•••	•••	O
18	40331801YS	Connection code; extension (Clutch)	CLUTCH/MCNT	•••	•••	•••	•••	•••	O
19	40332001YS	Connection code; extension	FUJI CARD: MCNT/HVPS	•••	•••	•••	•••	•••	O
20	40332201YS	Connection code; extension (SPSU)	SPSU (Sub-power)/MCNT	•••	•••	•••	O	O	•••
21	40332301YS	Connection code; extension (PSU)	PSU (Power)/SPSU (Sub-power)	•••	•••	•••	O	O	•••
22	40331901YS	Connection code; extension (Transformer)	Transformer/SPSU (Sub-power)	•••	•••	•••	O	O	•••

Note: This table is same as page 7.2-0.

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This chapter contains:

(a) Troubleshooting flow charts related to general operations
(b) Troubleshooting flow charts by test operations
(c) Troubleshooting flow charts placing an emphasis on mechanical portions

Section No.	Name of Flow Chart	(a)	(b)	(c)	Page
7.1.1	Overall troubleshooting flow chart	○	○		7.1-2
7.1.2	No LCD operation	○			7.1-3
7.1.3	ALARM LED on	○			7.1-4
7.1.4	Printing test failure	○	○		7.1-5
7.1.5	No local copy	○	○		7.1-6
7.1.6	Auto dial failure	○			7.1-7
7.1.7	Transmission problem	○			7.1-8
7.1.8	Auto reception failure	○			7.1-10
7.1.9	Reception problem	○			7.1-11
7.1.10	Sensor calibration test		○		7.1-13
7.1.11	LED test		○		7.1-14
7.1.12	Tone send test		○		7.1-15
7.1.13	High-speed modem test		○		7.1-16
7.1.14	MF (Tone) send test		○		7.1-18
7.1.15	Tone (TEL/FAX) send test		○		7.1-19
7.1.16	No acoustic line monitor	○			7.1-20
7.1.17	Power supply unit	○			7.1-21
7.1.18	No document feeding			○	7.1-31
7.1.19	Multiple document feeding			○	7.1-32
7.1.20	Document skew			○	7.1-33
7.1.21	Document jam			○	7.1-35
7.1.22	Printer unit				7.1-36

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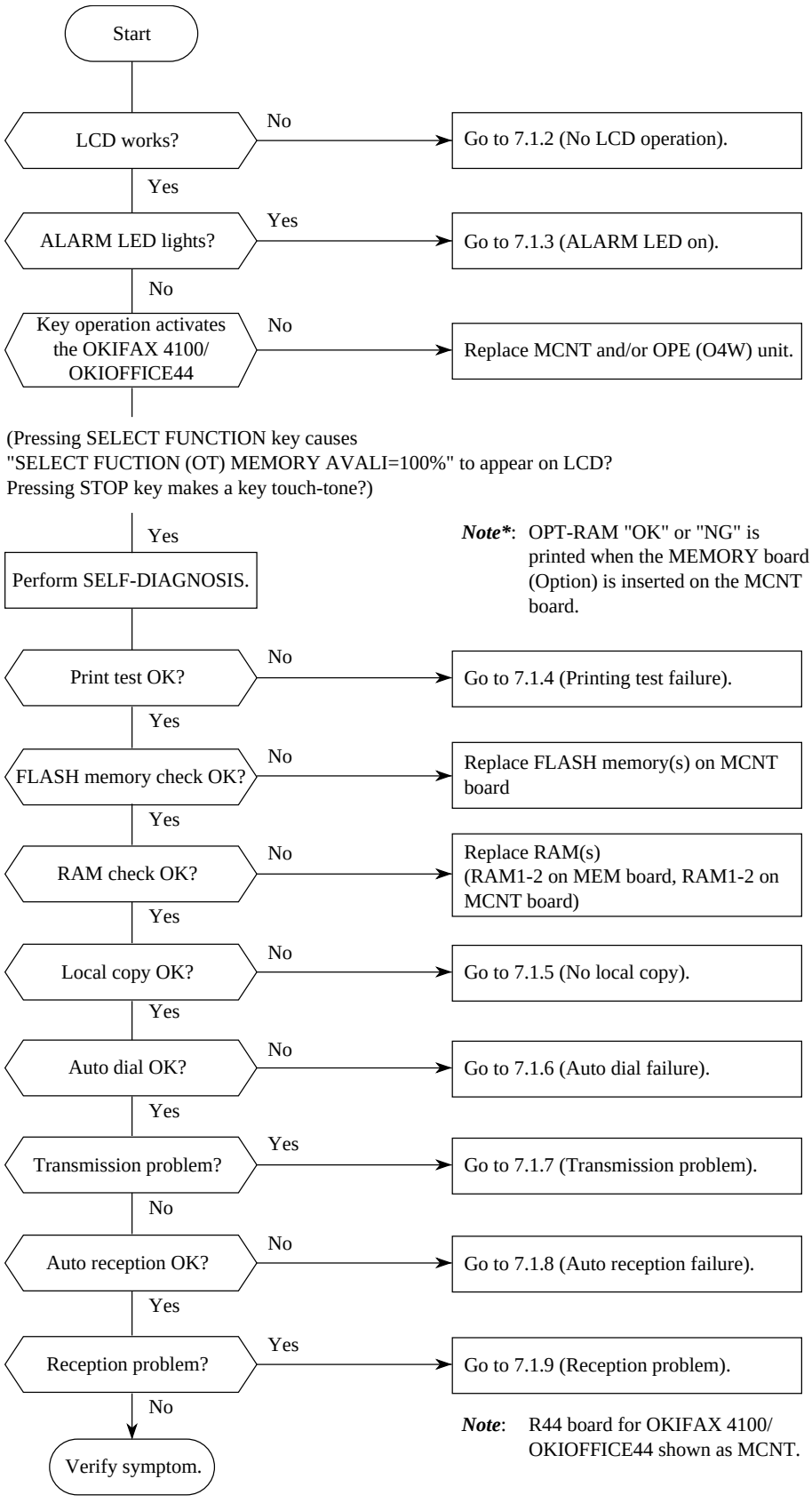
7.1.1 Overall Troubleshooting Flow Chart



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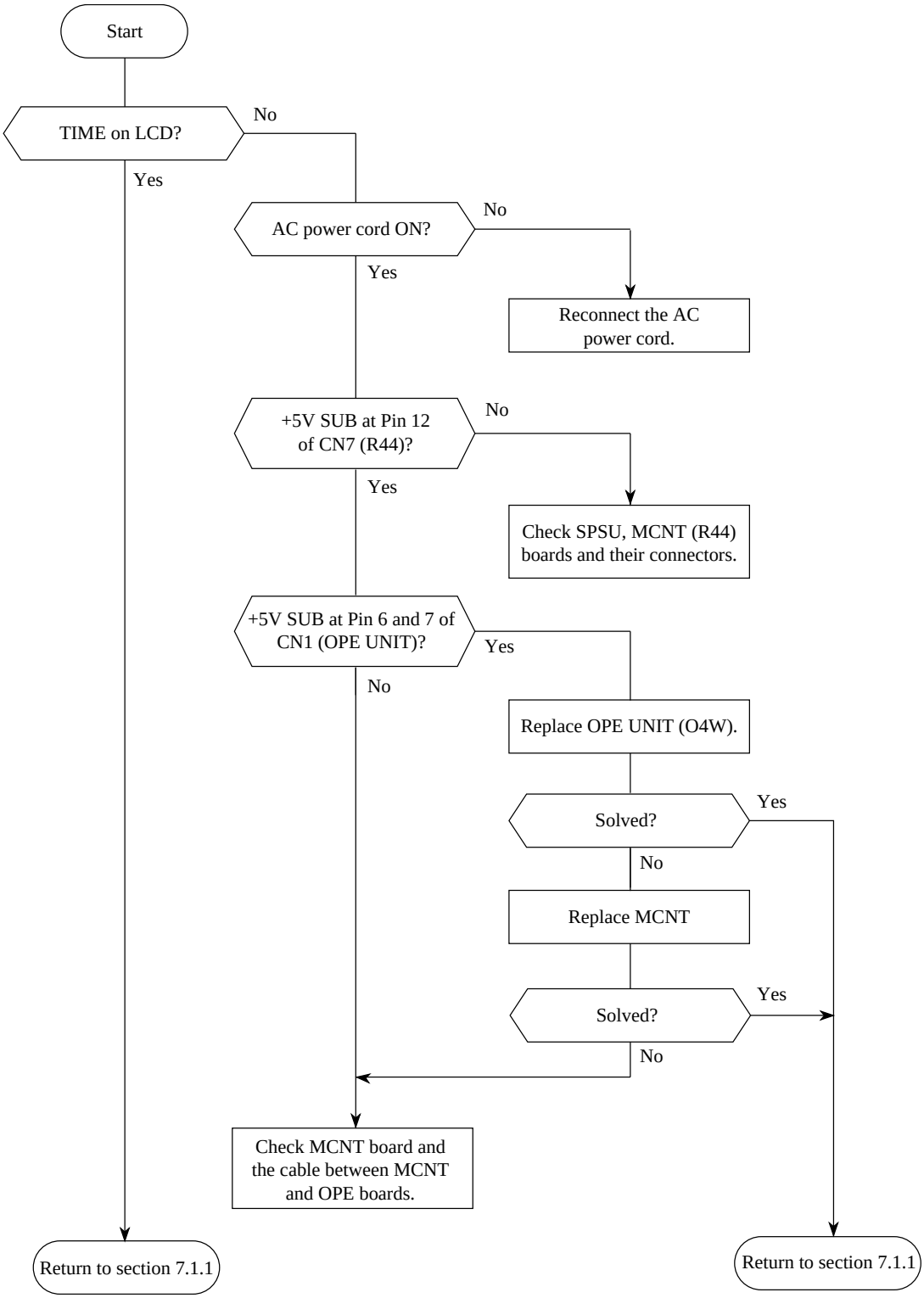
7.1.2 No LCD Operation



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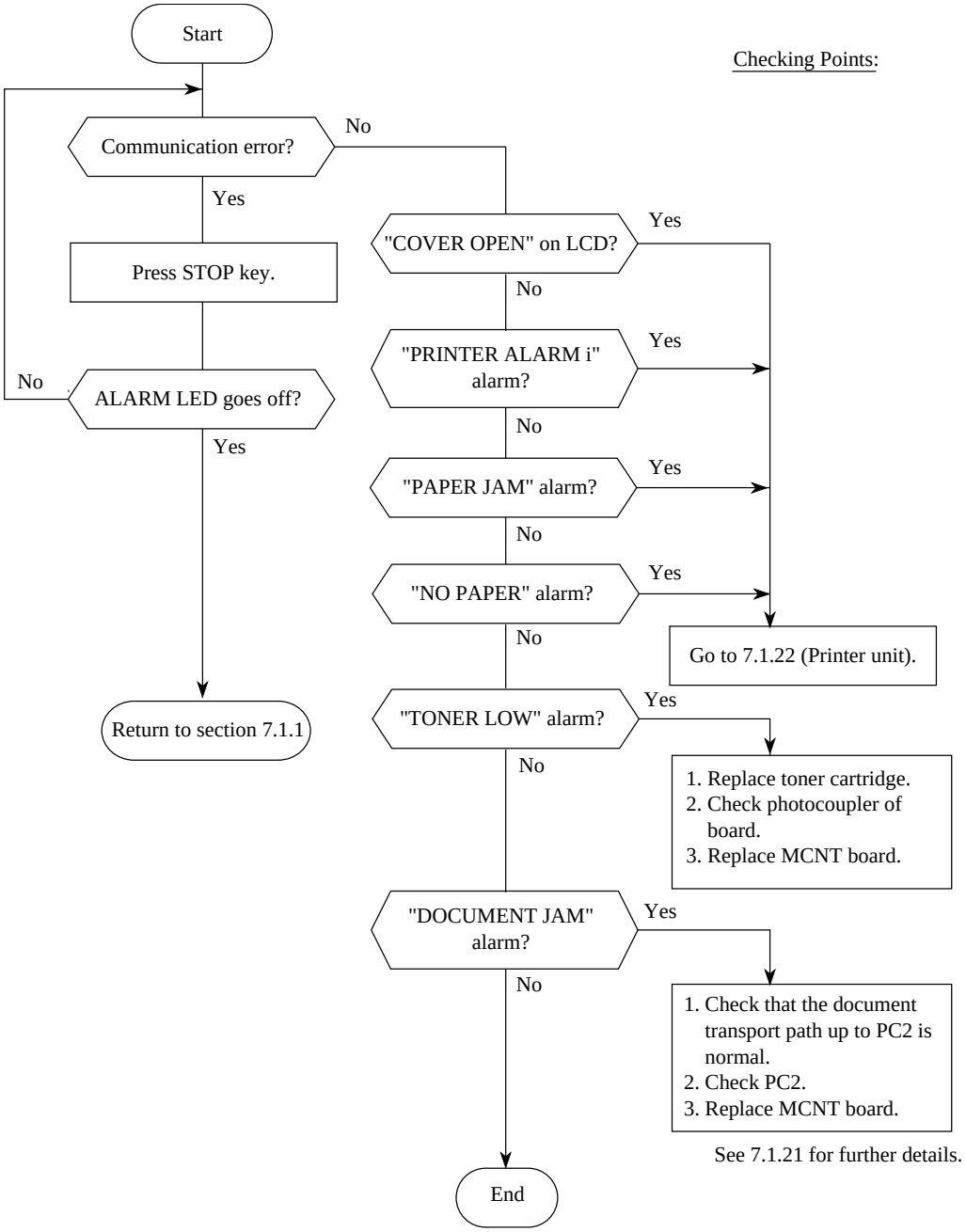
7.1.3 ALARM LED On



Note* : "PRINTER ALARM i" will be shown as follows:
PRINTER ALARM 2 and PRINTER ALARM 4.

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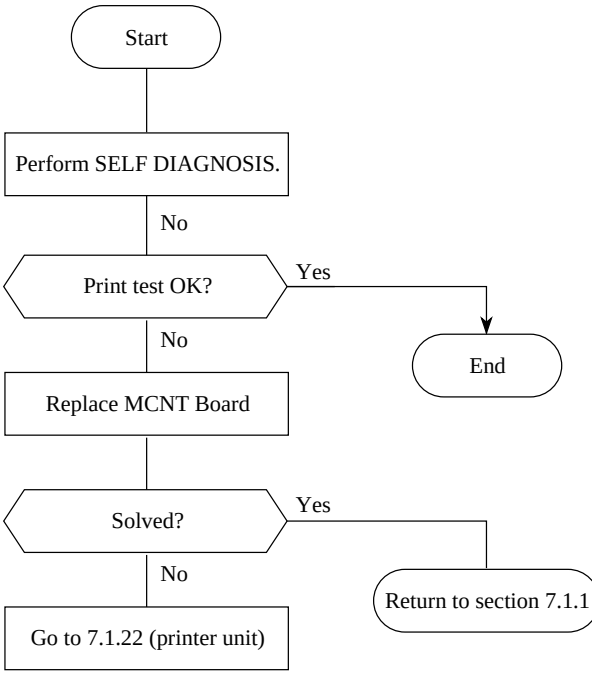
7.1.4 Printing Test Failure



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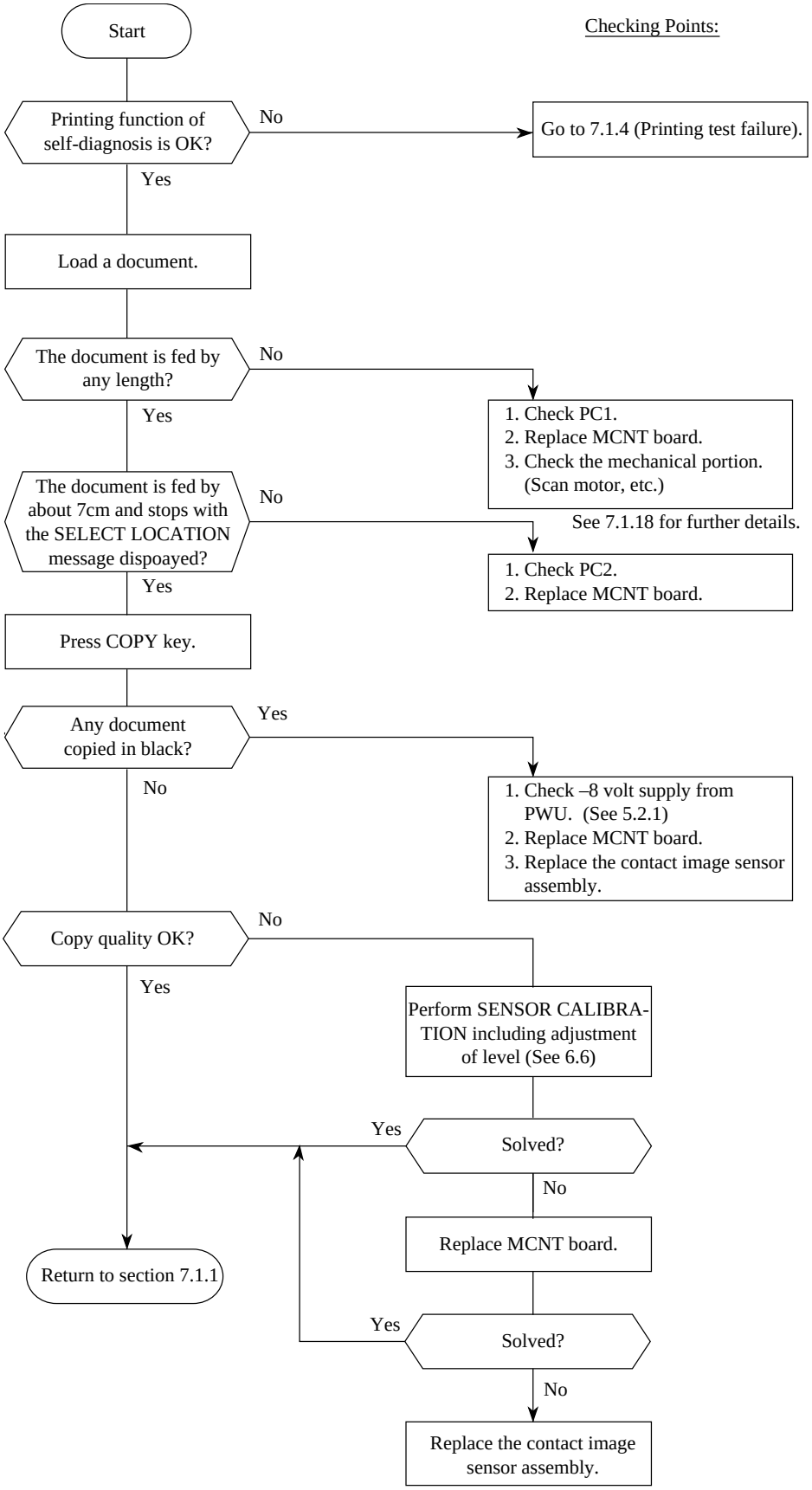
7.1.5 No Local Copy



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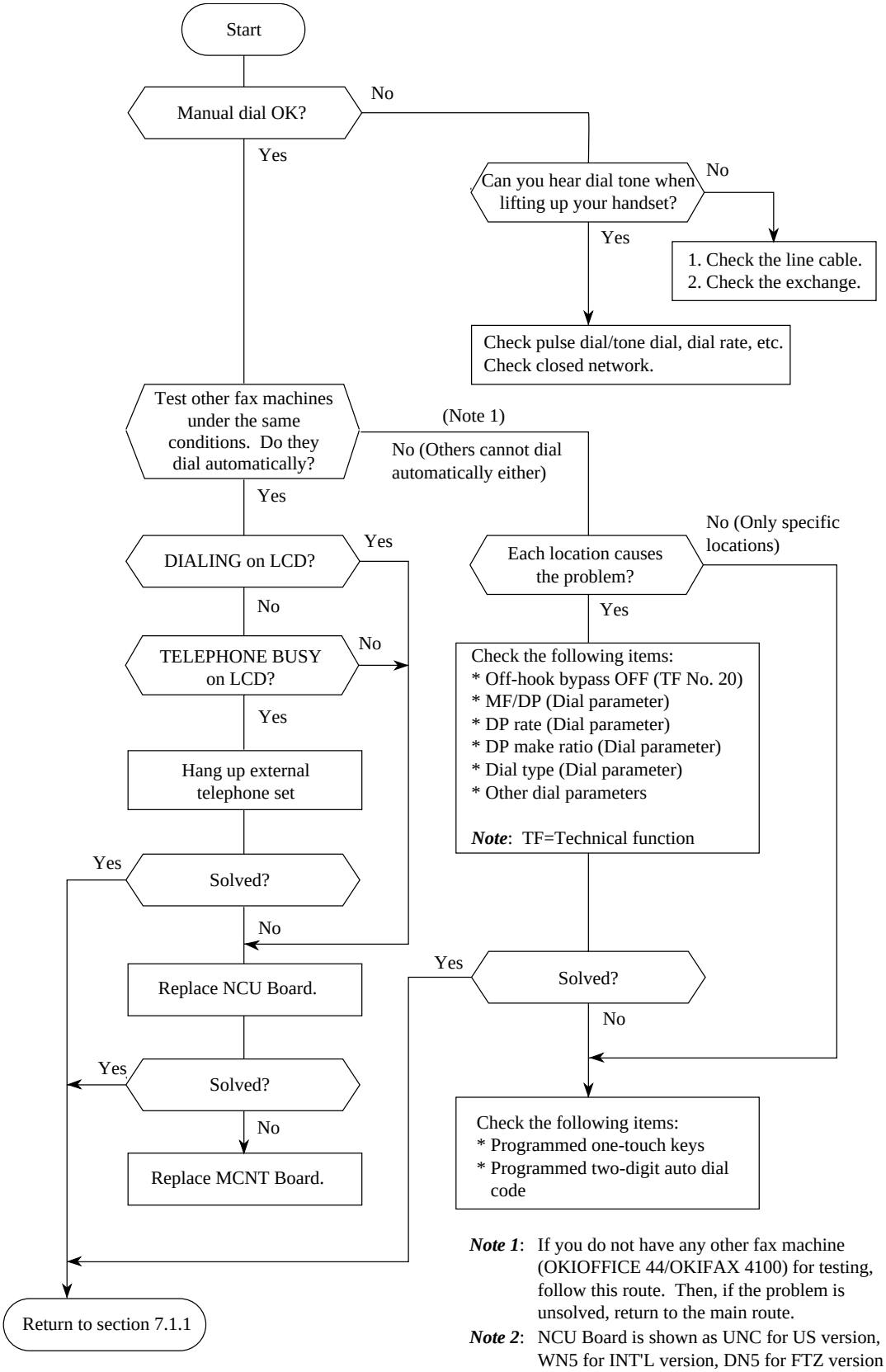
7.1.6 Auto Dial Failure



Note 1: If you do not have any other fax machine (OKIOFFICE 44/OKIFAX 4100) for testing, follow this route. Then, if the problem is unsolved, return to the main route.

Note 2: NCU Board is shown as UNC for US version, WN5 for INT'L version, DN5 for FTZ version and FN5 for France, and UK version.

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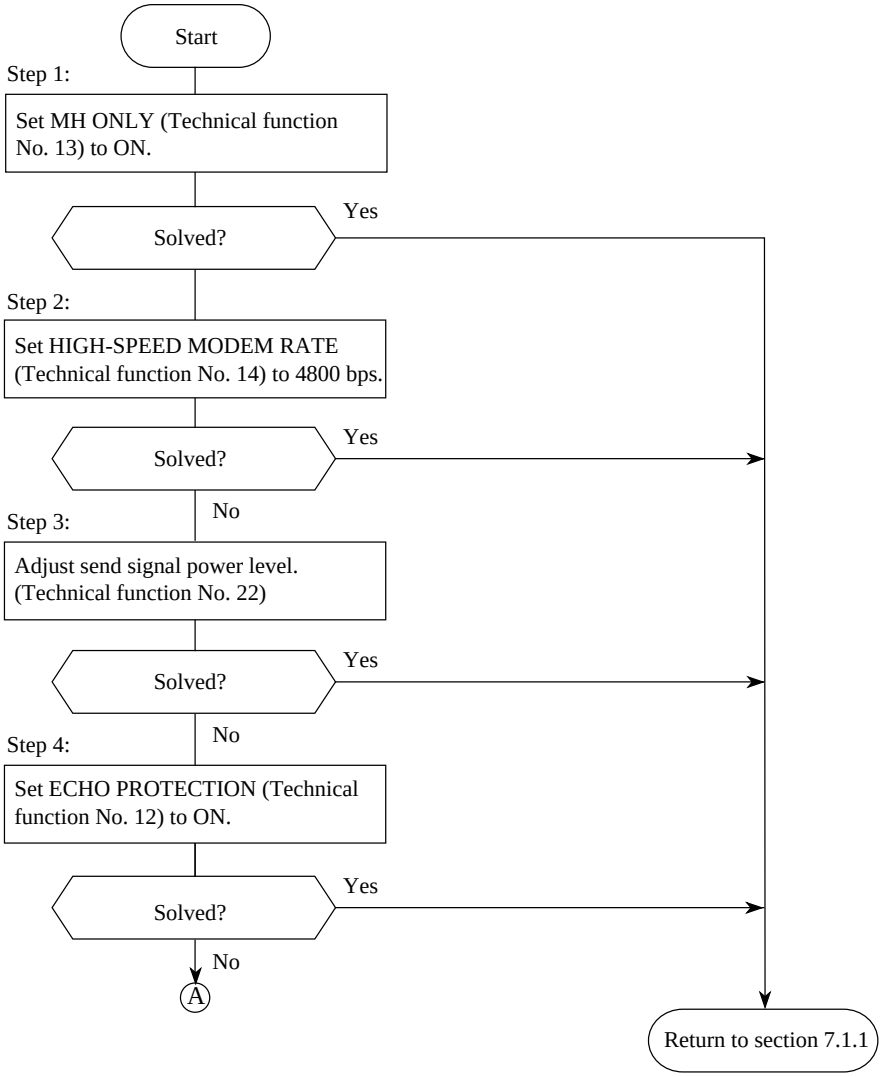
7.1.7 Transmission Problem

This section explains how to localize the cause of problems occurred after completion of connection with a remote station.



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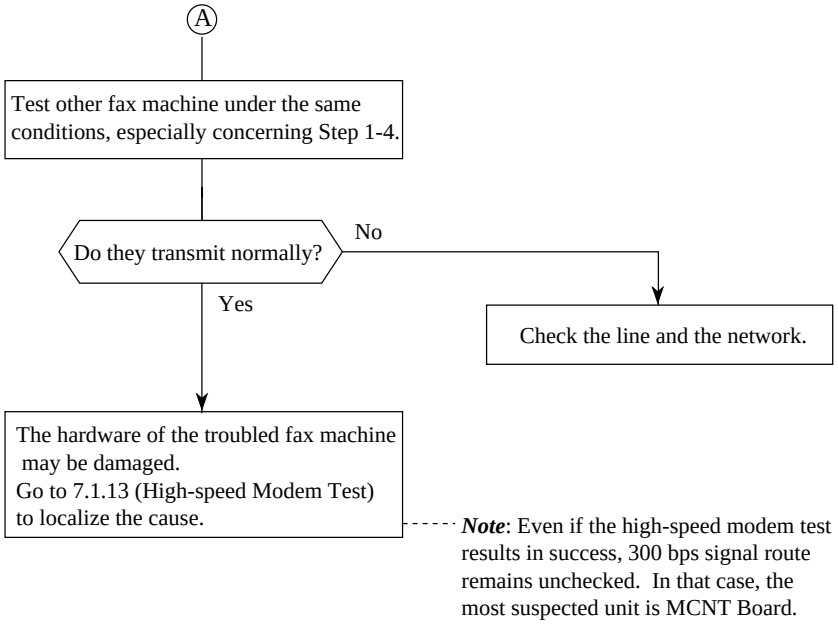
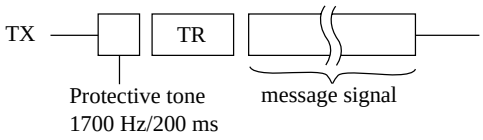

A
Test other fax machine under the same conditions, especially concerning Step 1-4.
Do they transmit normally?
No
Yes
Check the line and the network.
The hardware of the troubled fax machine may be damaged.
Go to 7.1.13 (High-speed Modem Test) to localize the cause.
Note: Even if the high-speed modem test results in success, 300 bps signal route remains unchecked. In that case, the most suspected unit is MCNT Board.

Description: Protective tone is 1700 Hz/200 ms.
This signal is added to training signal to protect the training signal against echo as follows.



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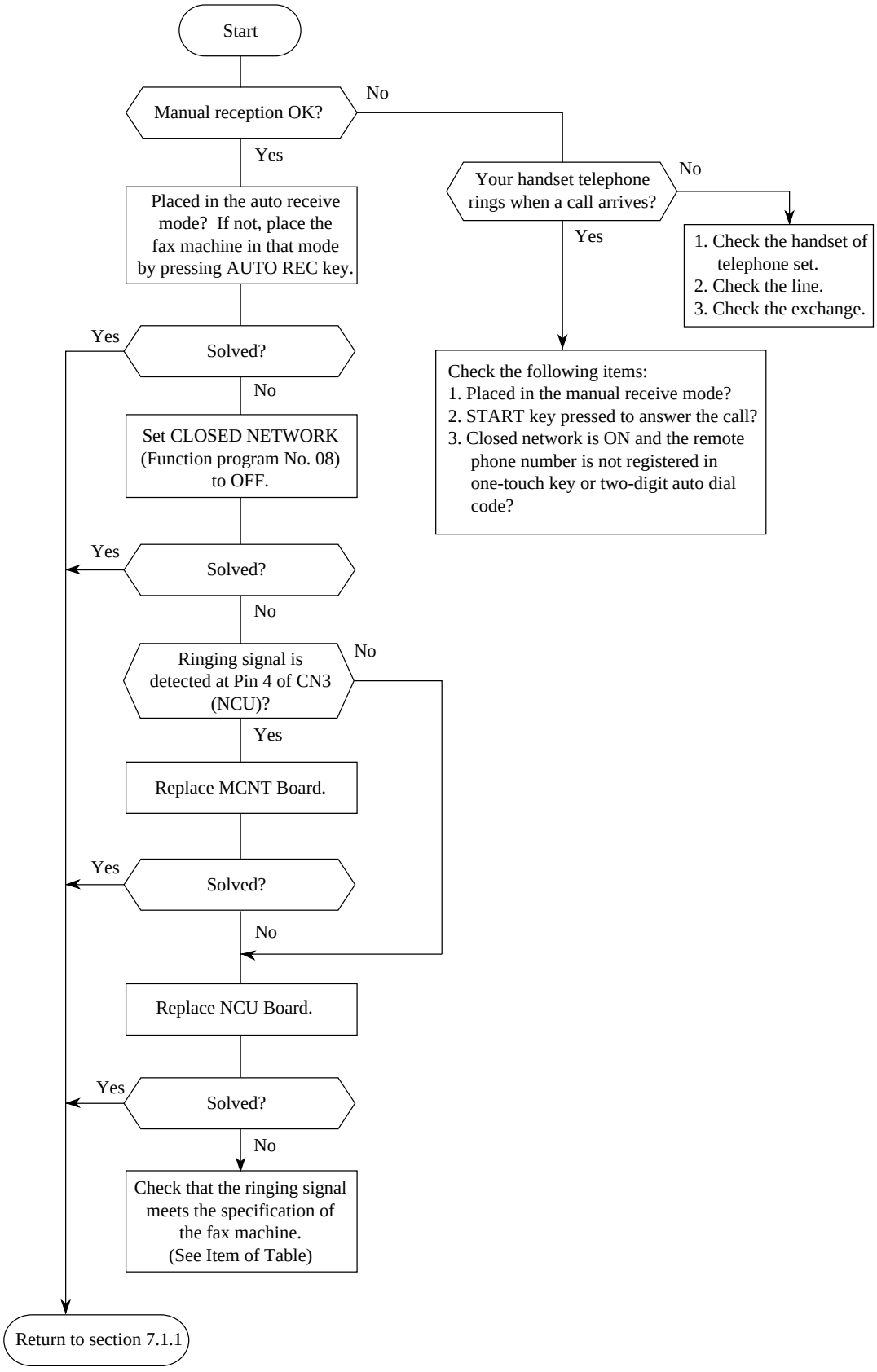
7.1.8 Auto Reception Failure


Start
Manual reception OK?
No
Yes
Your handset telephone rings when a call arrives?
No
Yes
1. Check the handset of telephone set.
2. Check the line.
3. Check the exchange.
Placed in the auto receive mode? If not, place the fax machine in that mode by pressing AUTO REC key.
Check the following items:
1. Placed in the manual receive mode?
2. START key pressed to answer the call?
3. Closed network is ON and the remote phone number is not registered in one-touch key or two-digit auto dial code?
Yes
Solved?
No
Set CLOSED NETWORK (Function program No. 08) to OFF.
Yes
Solved?
No
Ringing signal is detected at Pin 4 of CN3 (NCU)?
No
Yes
Replace MCNT Board.
Yes
Solved?
No
Replace NCU Board.
Yes
Solved?
No
Check that the ringing signal meets the specification of the fax machine. (See Item of Table)
Return to section 7.1.1

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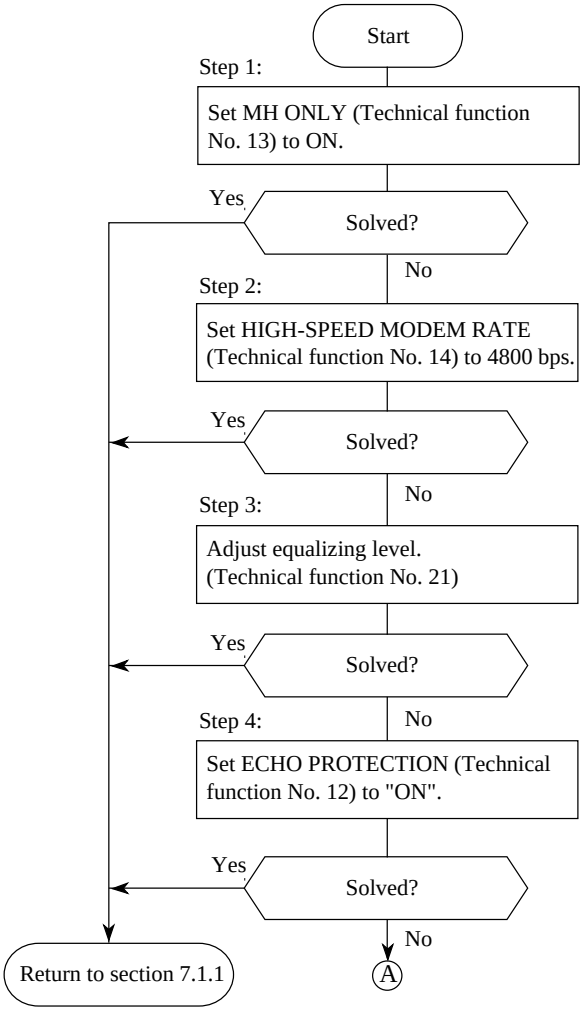
7.1.9 Reception Problem

This section explains how to localize the cause of problems occurred after completion of connection with a remote station.



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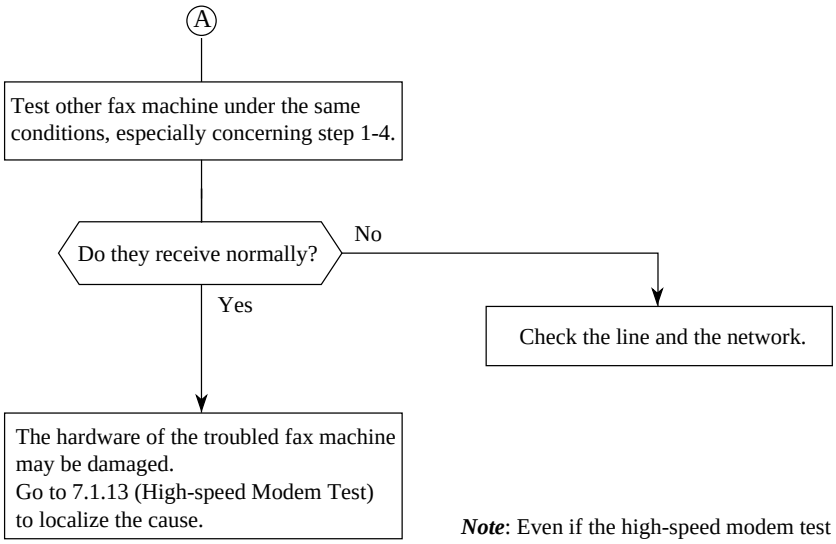
A
Test other fax machine under the same conditions, especially concerning step 1-4.
Do they receive normally?
No
Yes
Check the line and the network.
The hardware of the troubled fax machine may be damaged.
Go to 7.1.13 (High-speed Modem Test) to localize the cause.

Note: Even if the high-speed modem test results in success, 300 bps signal route remains unchecked. In that case, the most suspected unit is MCNT board.

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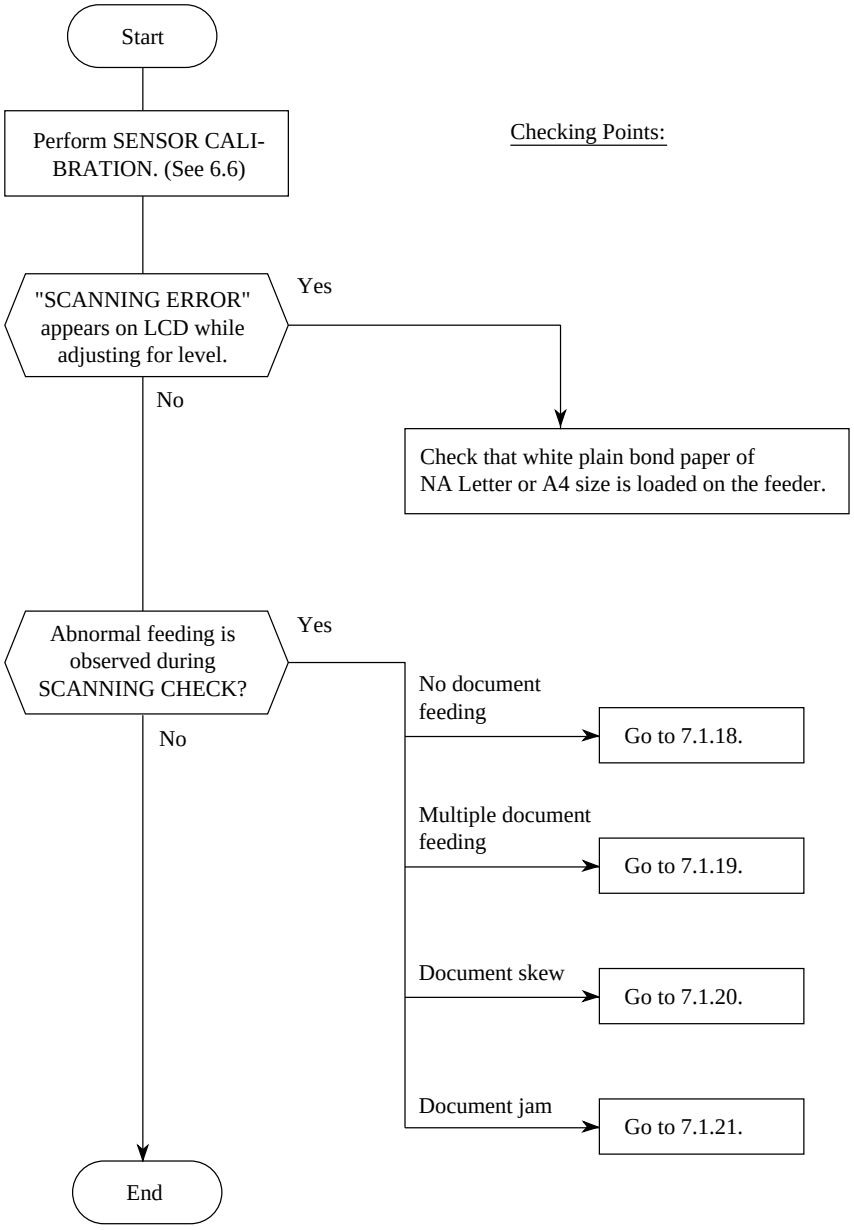
7.1.10 Sensor Calibration Test



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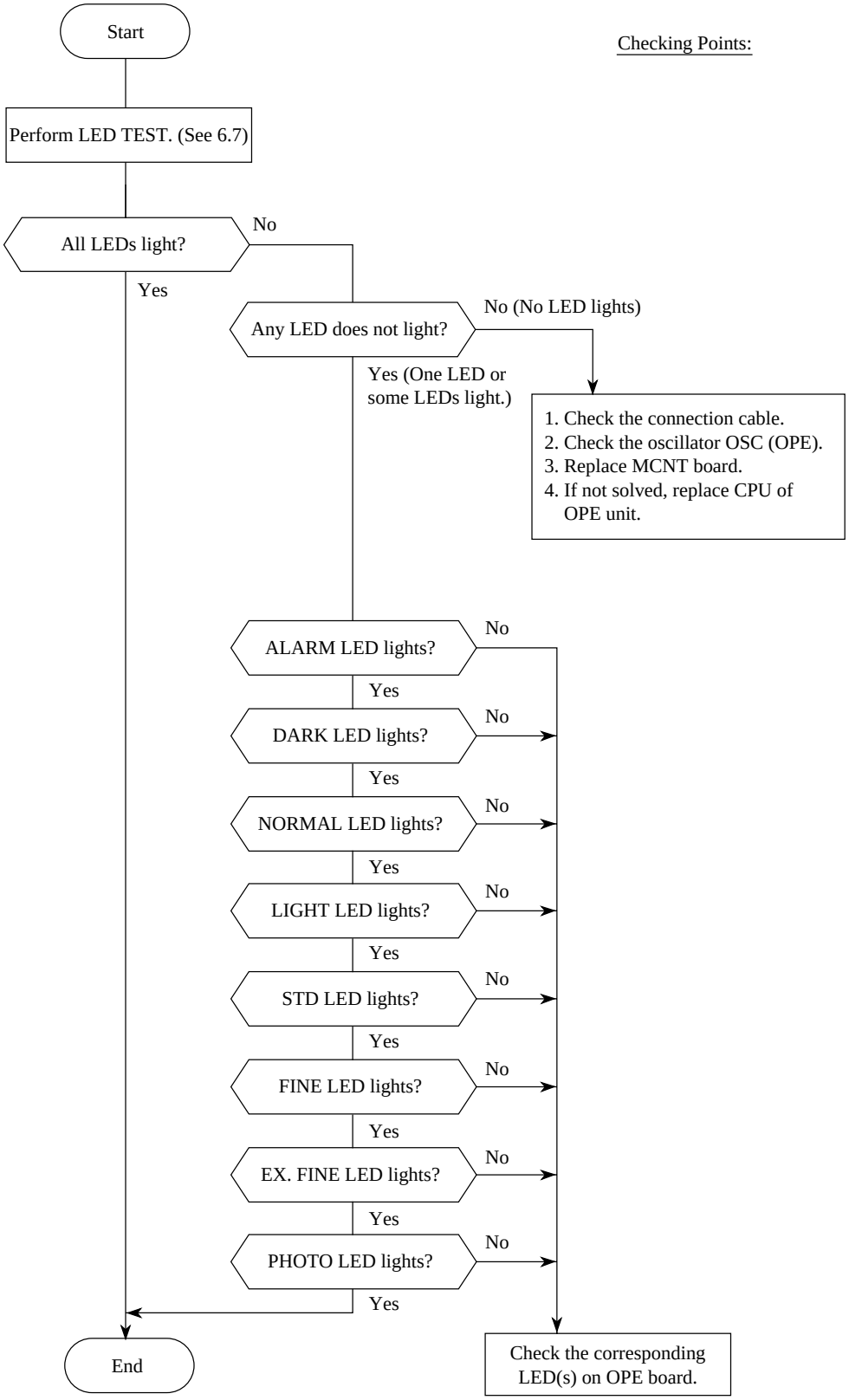
7.1.11 LED Test



Checking Points:

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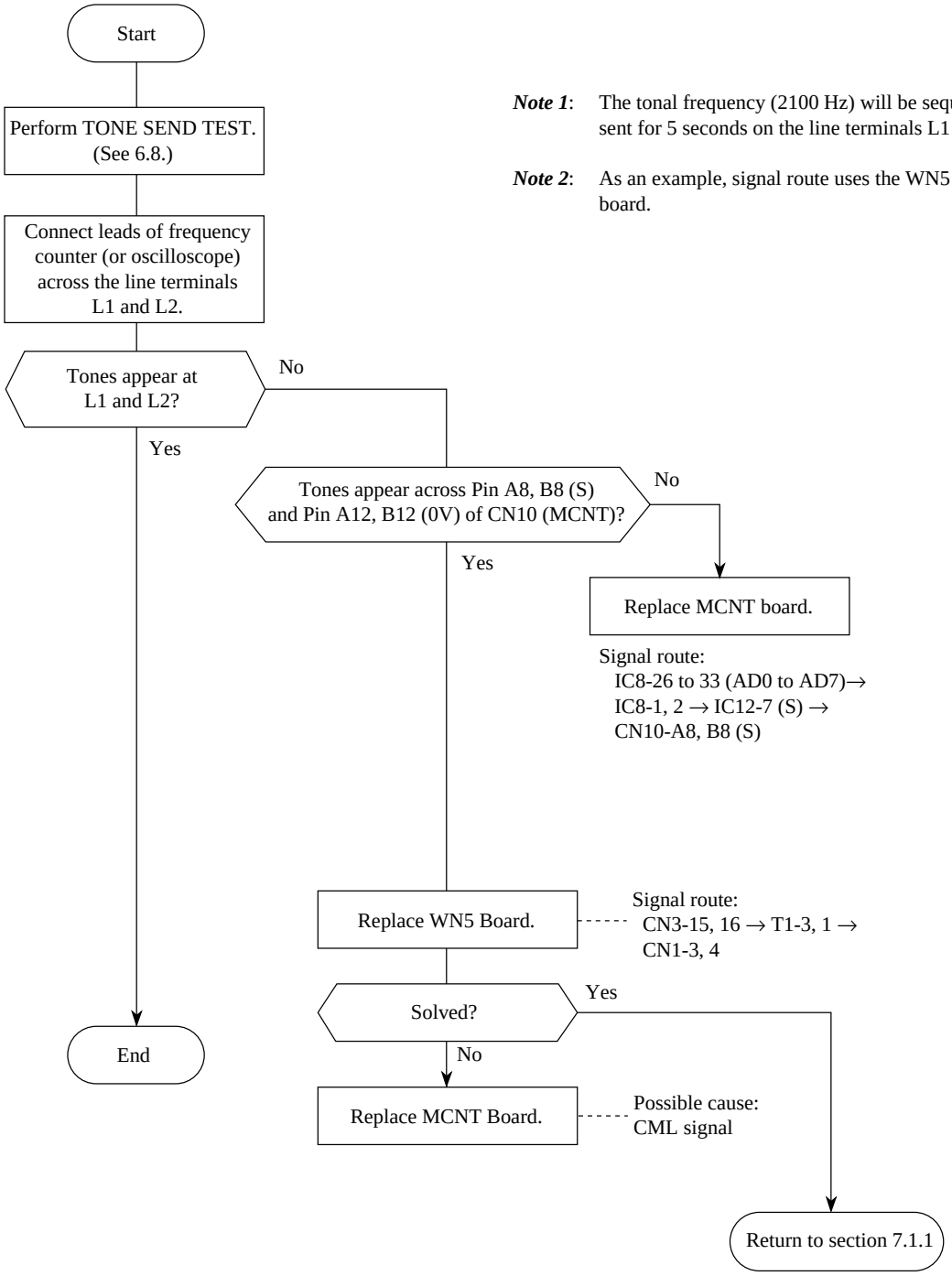
7.1.12 Tone Send Test



Note 1: The tonal frequency (2100 Hz) will be sequentially sent for 5 seconds on the line terminals L1 and L2.

Note 2: As an example, signal route uses the WN5 (NCU) board.

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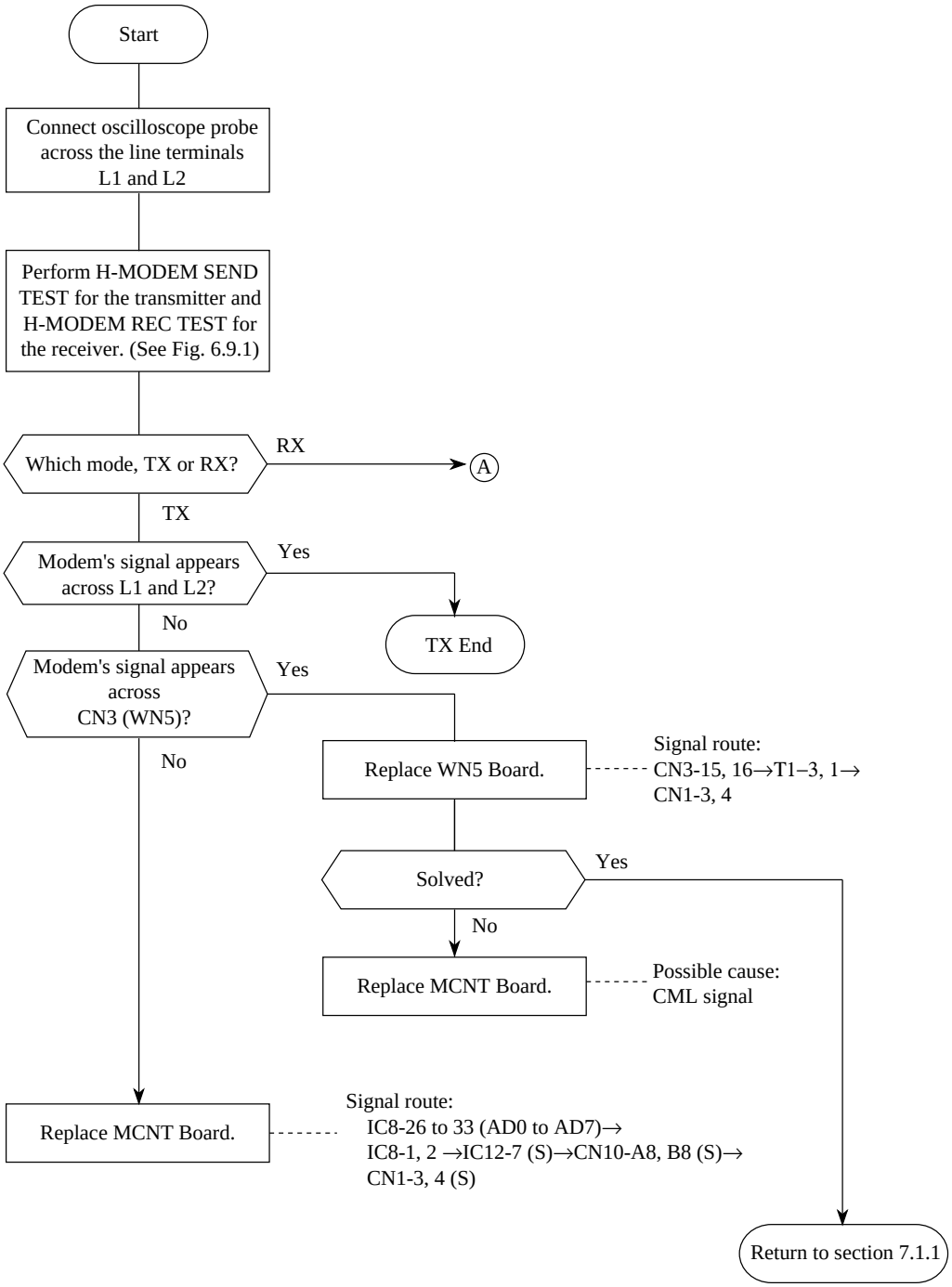
7.1.13 High-speed Modem Test



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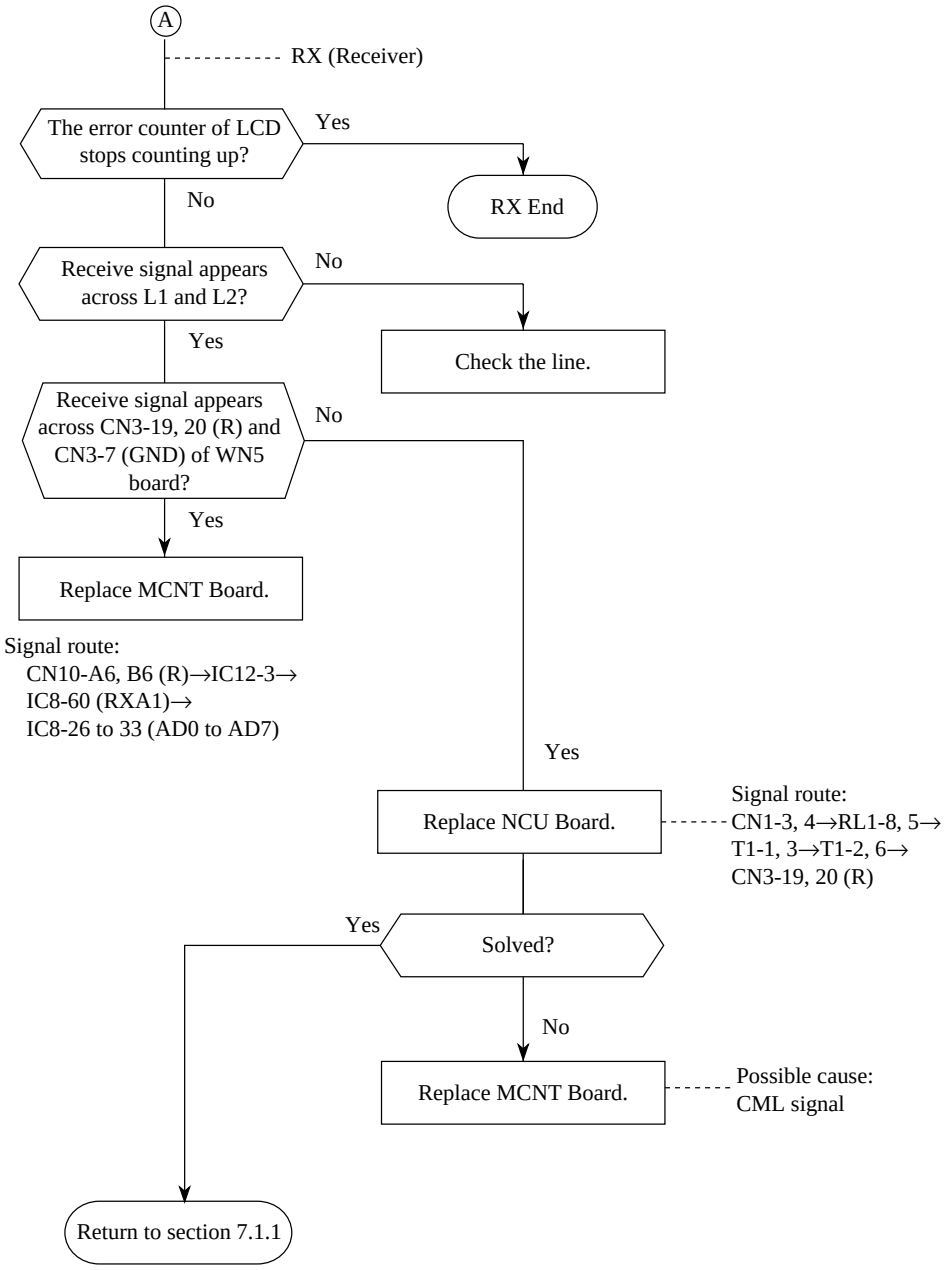

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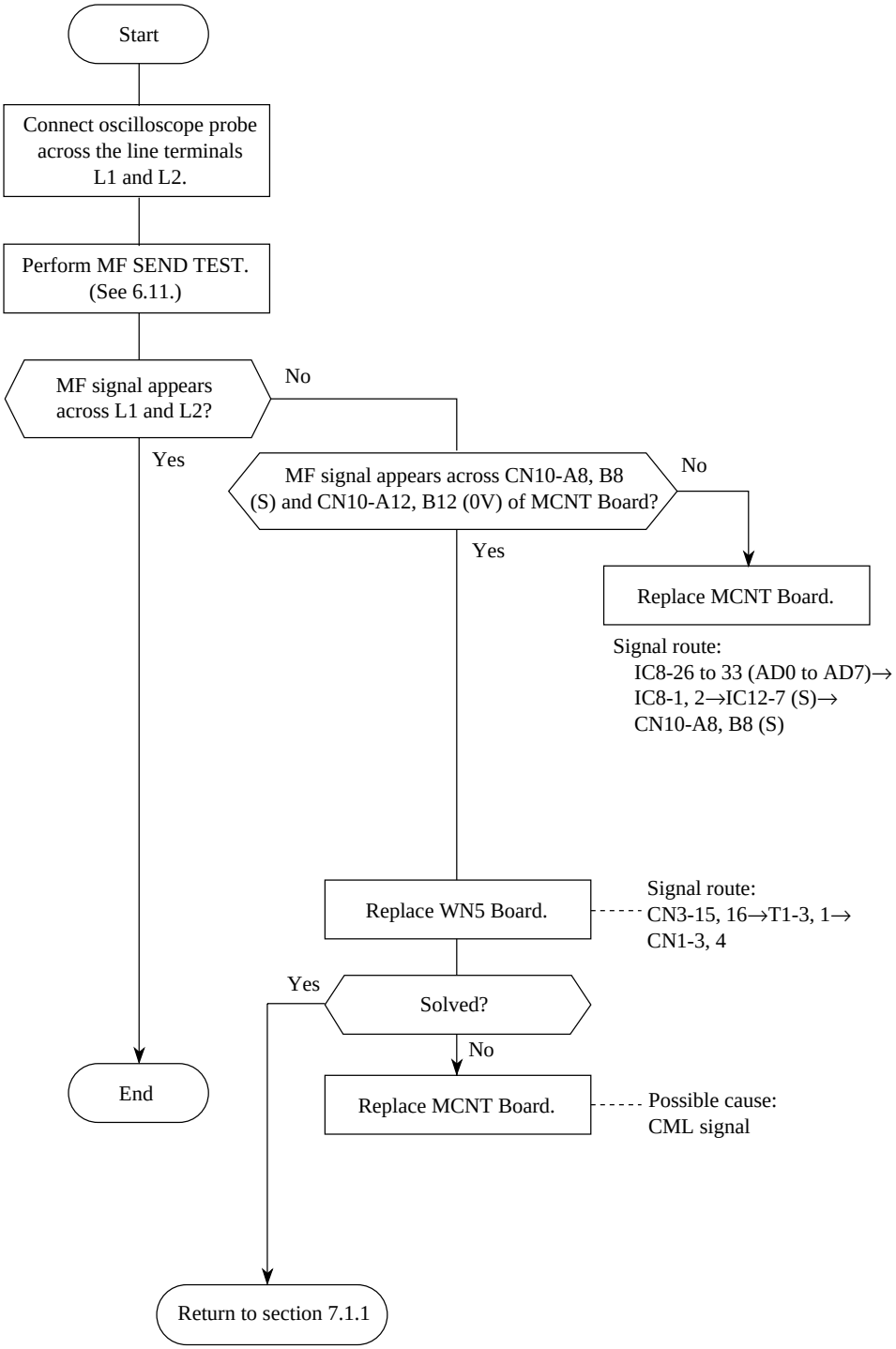
7.1.14 MF Send Test



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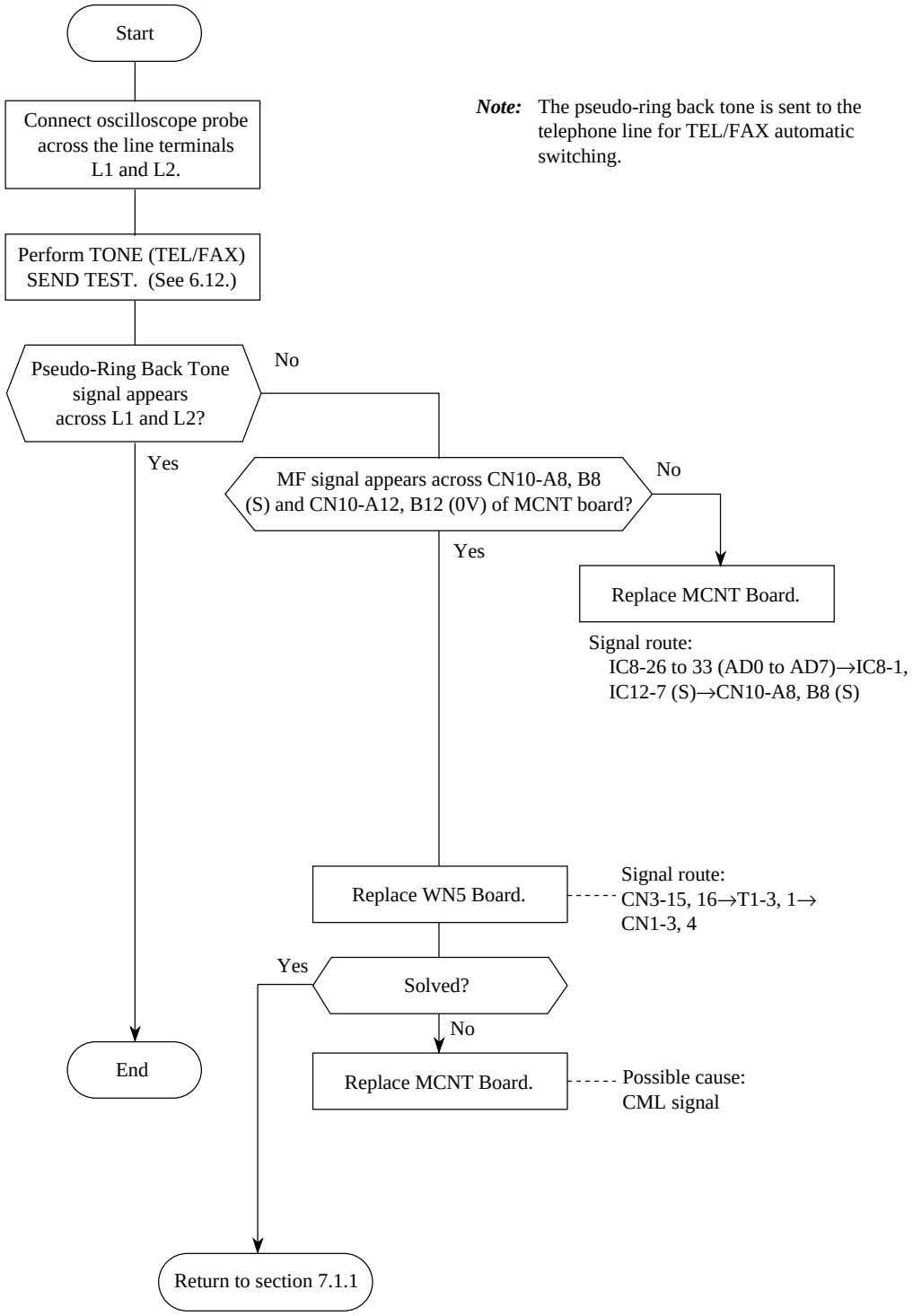
7.1.15 Tone (TEL/FAX) Send Test



Note: The pseudo-ring back tone is sent to the telephone line for TEL/FAX automatic switching.

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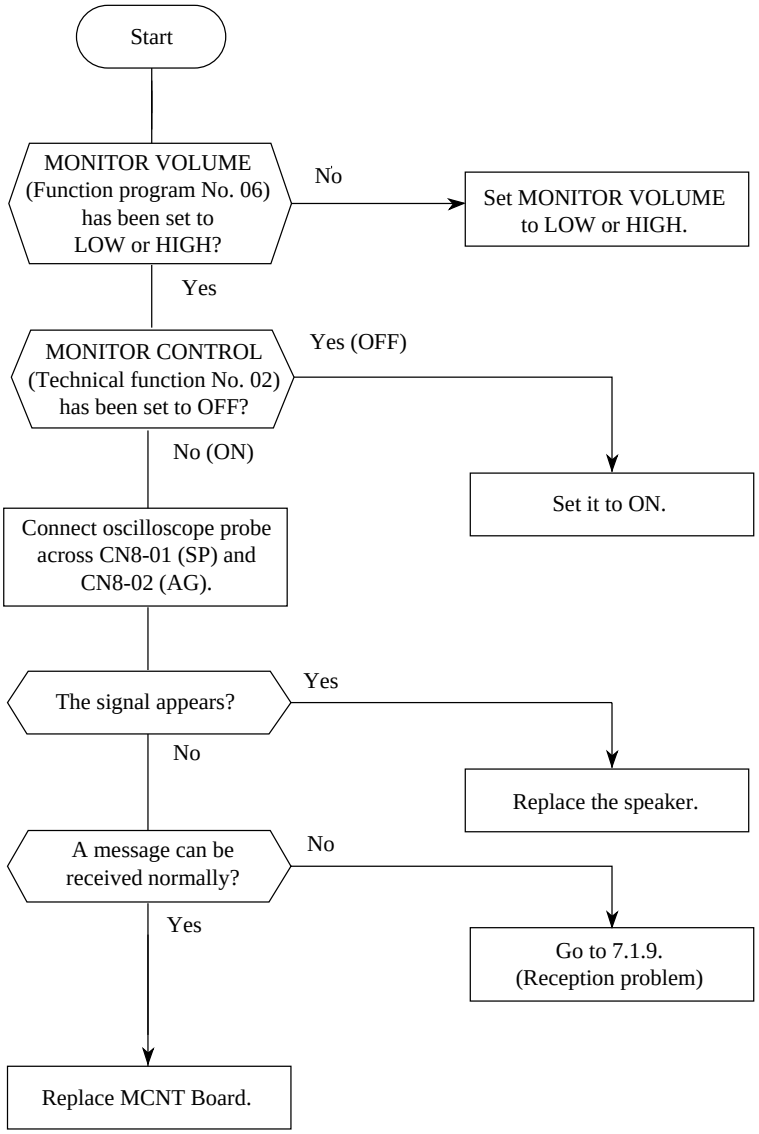
7.1.16 No Acoustic Line Monitor

There are two source routes of acoustic line monitor:

(a) General communication signal
(b) DP pulse signal



Signal route:
CN10-A6, B6→IC12-1 (RM)→
TR1-2→IC11-1→IC11-3→
IC5-5

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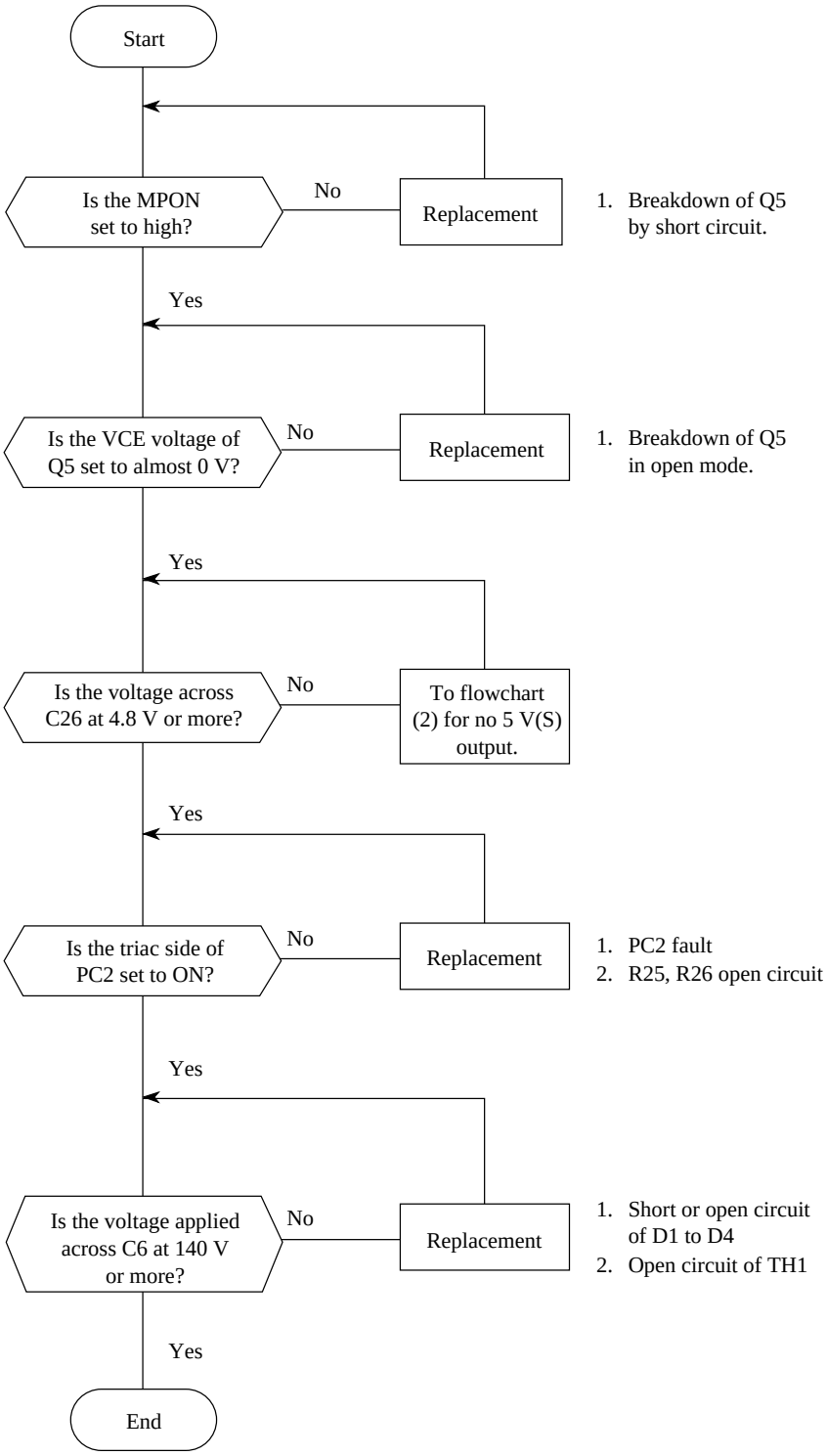
7.1.17 Power Supply Unit

(1) The main power supply is not turned ON.



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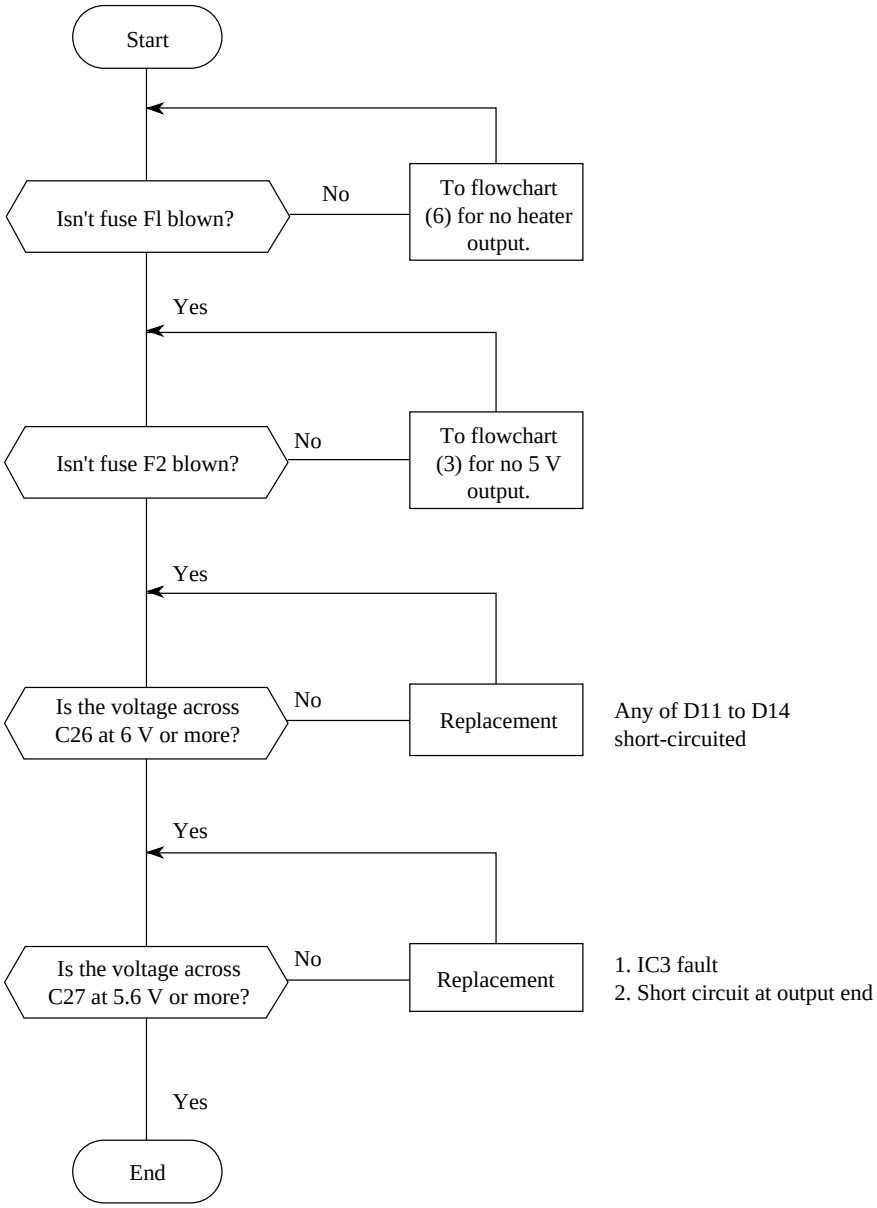
Low-voltage Selection.

(2) No 5 V(S) output



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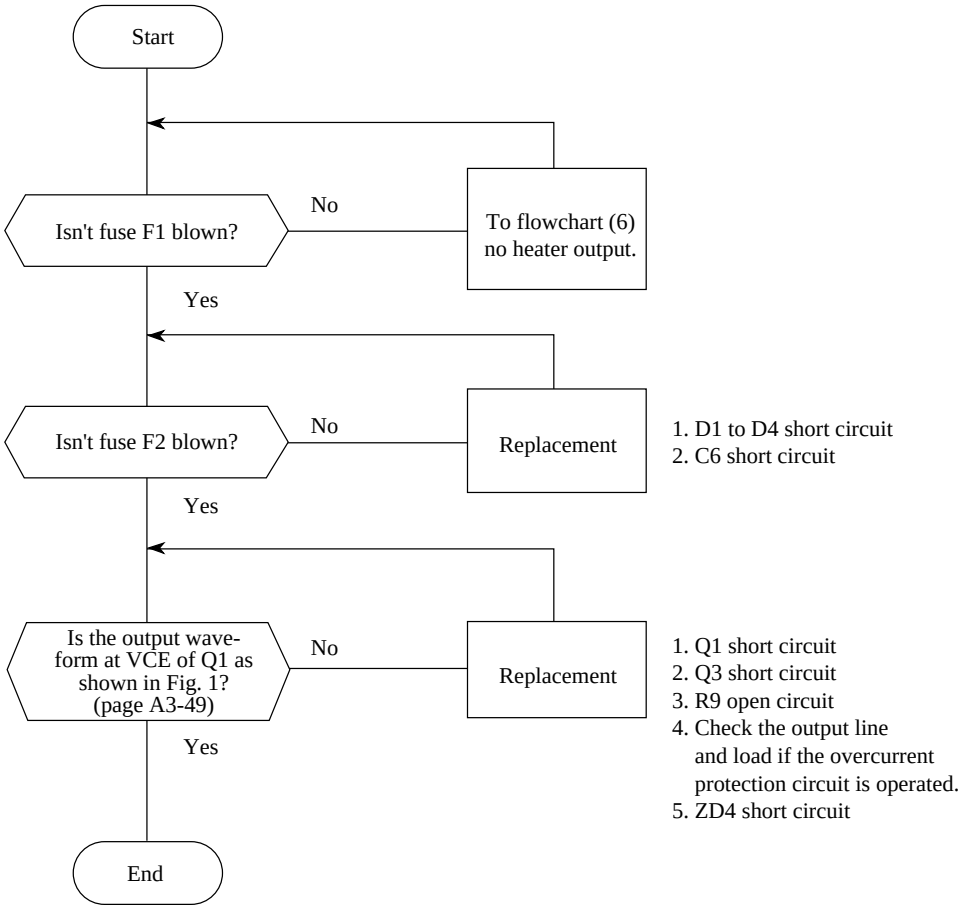
(3) No 5 V output



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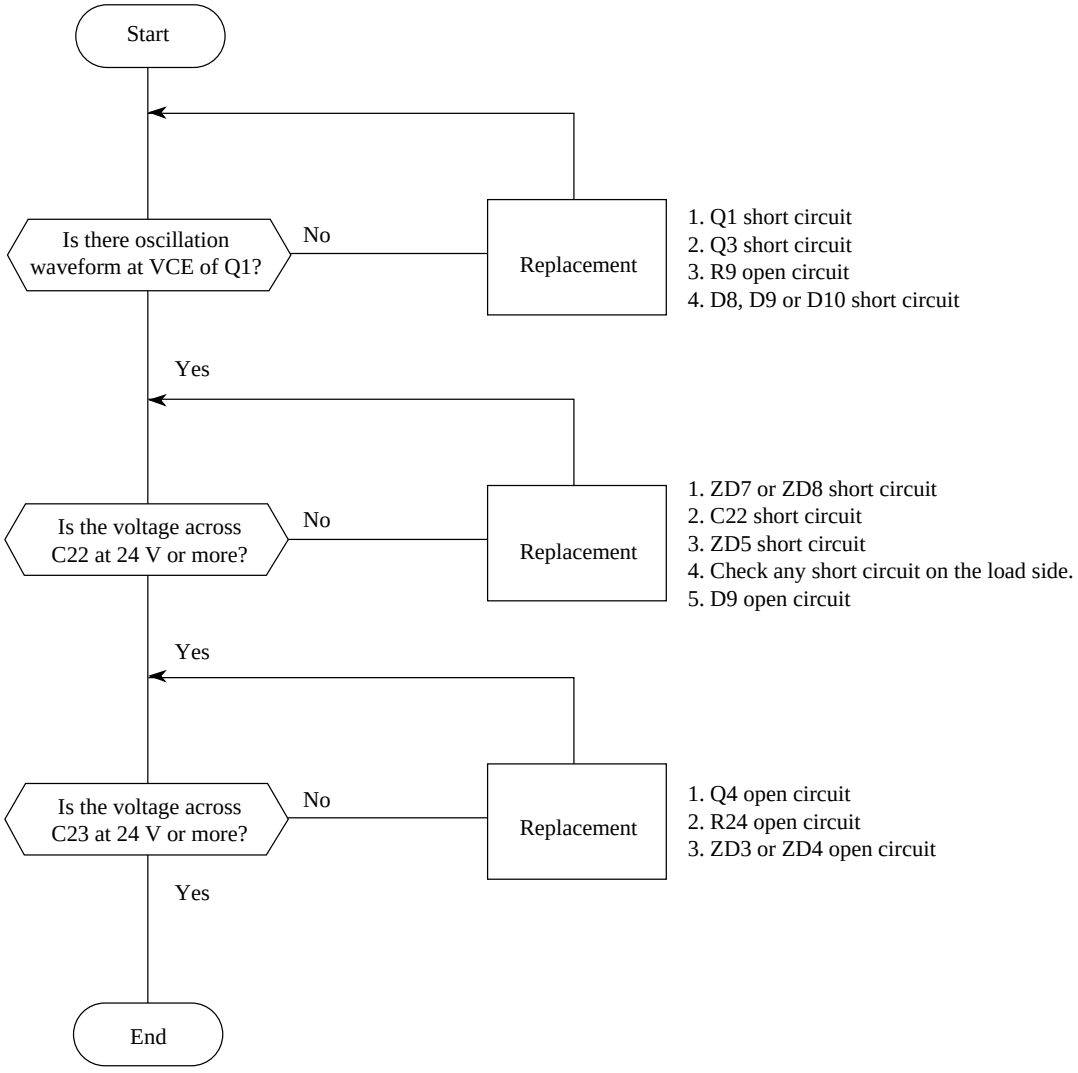
(4) No 24 V output



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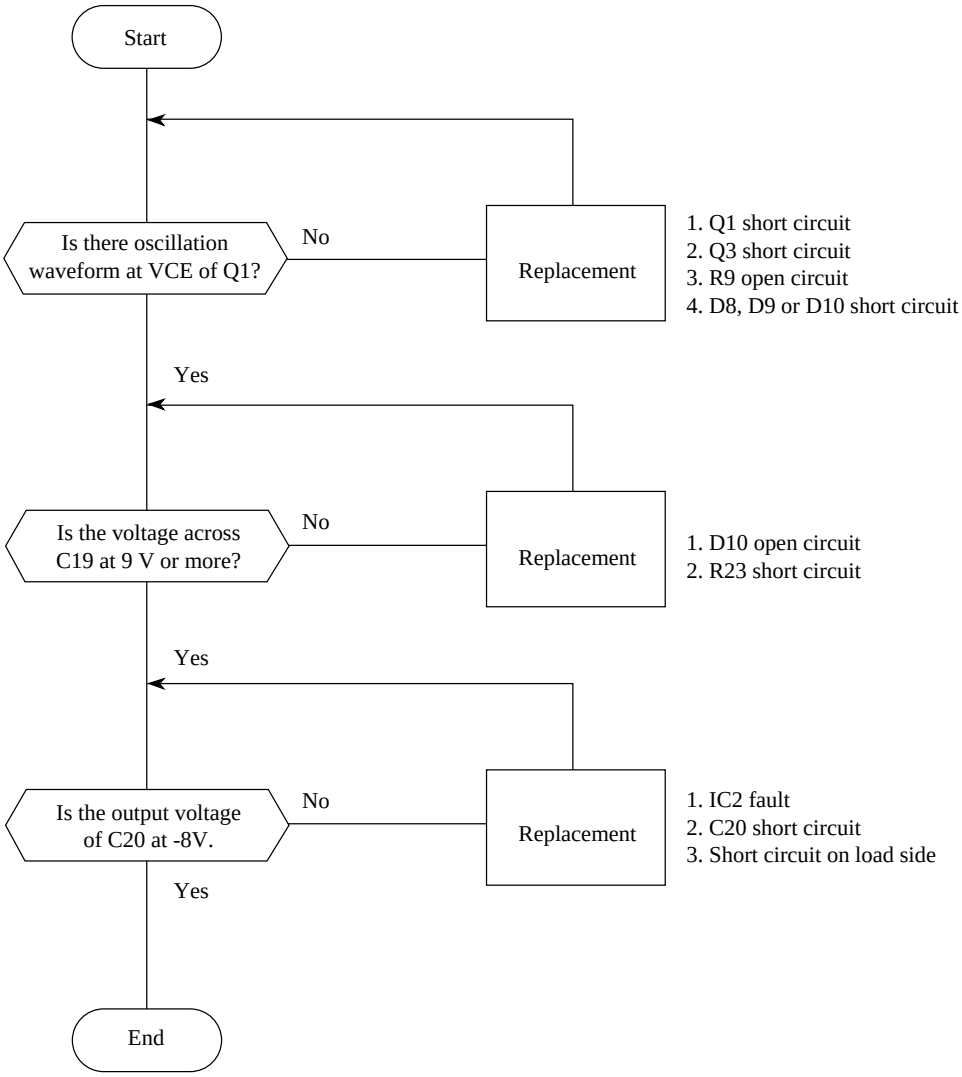
(5) No –8 V output



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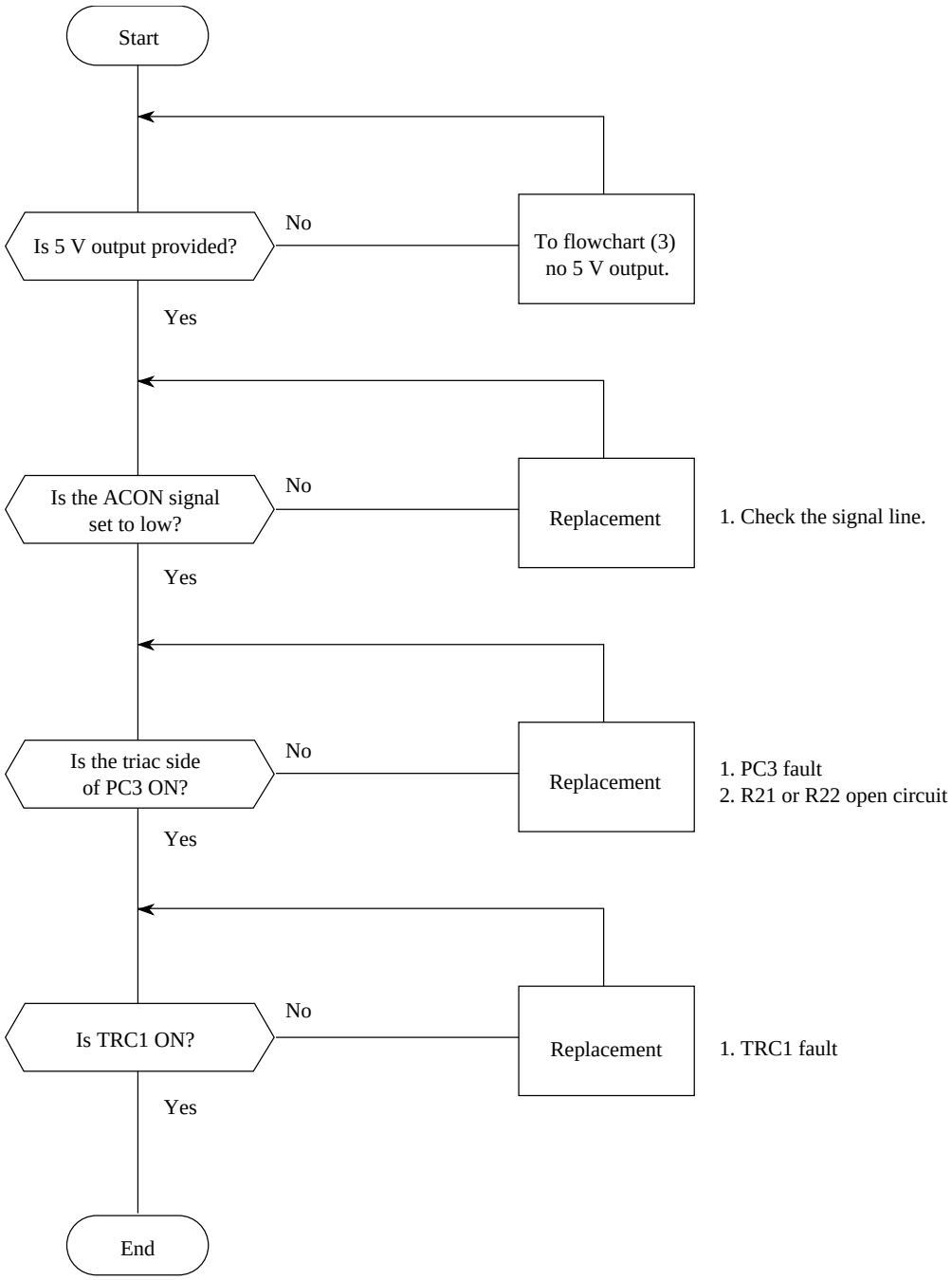
(6) No heater output



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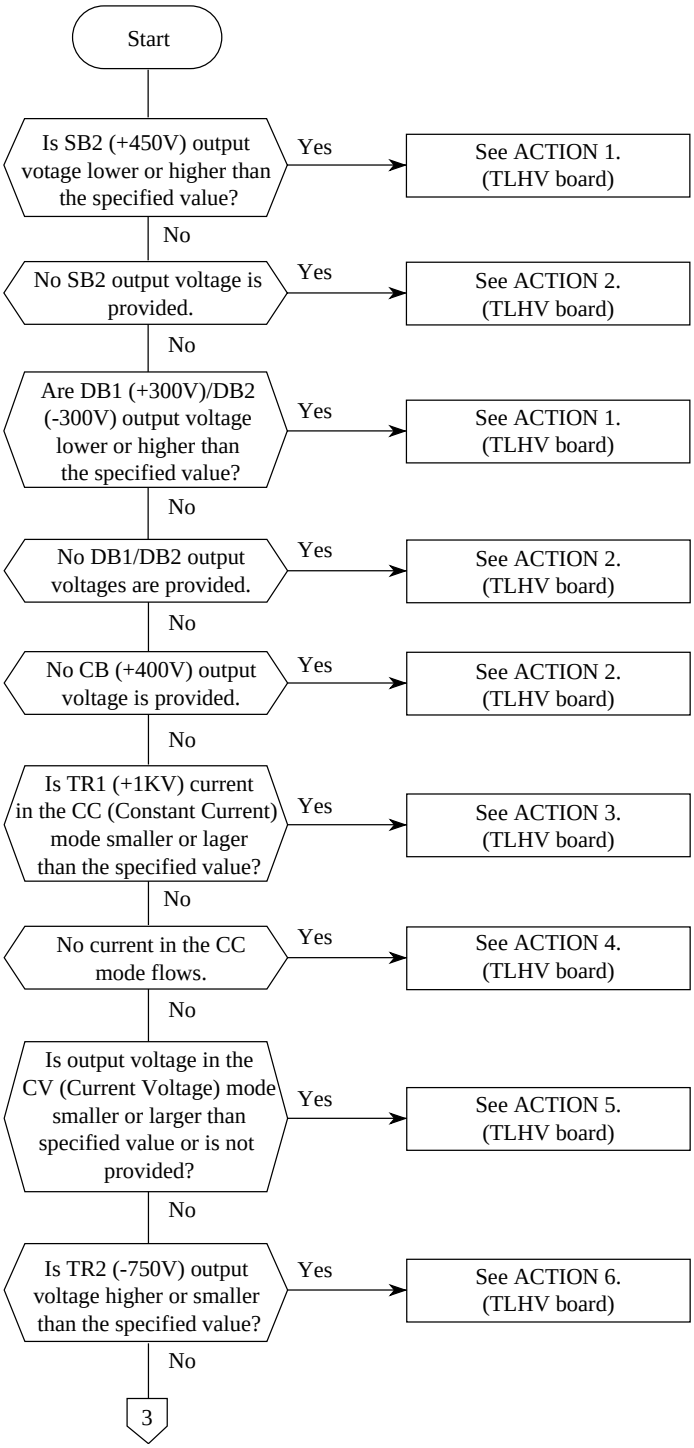
High-voltage Selection.

(7) SB, DB, CB, TR, and CH output voltage


Start
Is SB2 (+450V) output votage lower or higher than the specified value?
Yes
See ACTION 1. (TLHV board)
No
No SB2 output voltage is provided.
Yes
See ACTION 2. (TLHV board)
No
Are DB1 (+300V)/DB2 (-300V) output voltage lower or higher than the specified value?
Yes
See ACTION 1. (TLHV board)
No
No DB1/DB2 output voltages are provided.
Yes
See ACTION 2. (TLHV board)
No
No CB (+400V) output voltage is provided.
Yes
See ACTION 2. (TLHV board)
No
Is TR1 (+1KV) current in the CC (Constant Current) mode smaller or lager than the specified value?
Yes
See ACTION 3. (TLHV board)
No
No current in the CC mode flows.
Yes
See ACTION 4. (TLHV board)
No
Is output voltage in the CV (Current Voltage) mode smaller or larger than specified value or is not provided?
Yes
See ACTION 5. (TLHV board)
No
Is TR2 (-750V) output voltage higher or smaller than the specified value?
Yes
See ACTION 6. (TLHV board)
No
3

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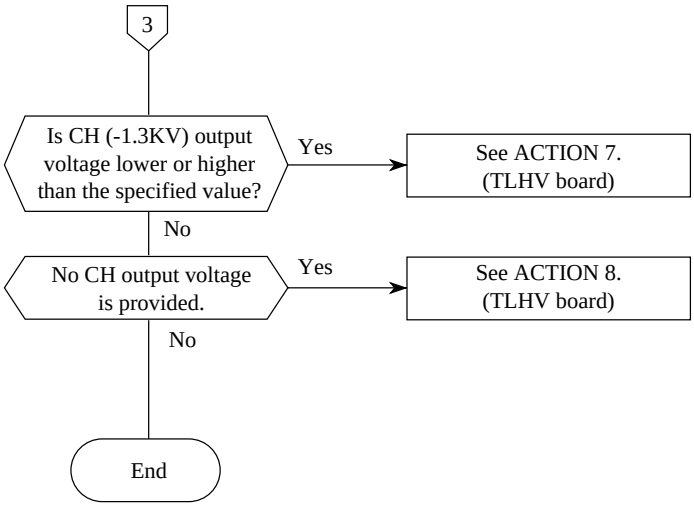

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ACTION Item:

No.	ACTION	
1	Probable cause 1: Check item 1:	D83 is defective. Replace D83.
	Probable cause 2: Check item 2:	The load is larger than the normal value. Check if the load current is 2µA or less.
	Probable cause 3: Check item 3:	D52 is defective. Check if D52 is iZ300 class Y or Z (class X is not acceptable).
2	Probable cause 1: Check item 1:	Q11 and Q12 are malfunctioning. Check the PWM waveform of DB output (cycle: 142 µs, ON time: 36µs).
	Check item 2:	Check Q11 and Q12. Check the base voltage of Q21, Q22 and Q23 (3.7V or more to 3.9V or more).
3	Probable cause 1: Check item 1:	Current set resistor R115 is defective. Check R115 (tolerance error: +/-1%)
	Probable cause 2: Check item 2:	The reference voltage is incorrect. Check if the voltage at CN1-21 pin is 2.5V.
	Check item 3:	Check the PWM waveform of TR1 (cycle: 142Ms, ON time: 36 µs).
4	Probable cause 1: Check item 1:	CC (Constant Current) mode is not set. Check if TR SEL2 is "H".
	Probable cause 2: Check item 2:	T2 is defective. Replace T2. Check T2.
	Probable cause 3:	Check (3) of ACTION 1.
5	Probable cause 1: Check item 1:	The voltage memory circuit is malfunctioning. Check if the average value of the VSEN voltage in the CC mode is equal to that in the CV (Current Voltage) mode. Check if the voltage across C230 remains unchanged in the CV mode (for 15 seconds or more).
6	Probable cause 1: Check item 1:	D65 or D66 is defective. Check if these diodes are 1ZB390.
	Check item 2:	Check the PWM waveform of TR2 output (cycle: 146µs, ON time: 36µs).
	Check item 3:	Check if TR1 is "L" or TR2 is "H" (if TR1 is "H", TR1 output appears).
7	Probable cause 1: Check item 1:	The class of D76 or D82 is incorrect. Check if both D76 and D82 are of EB-2 class.
	Probable cause 2: Check item 2:	The load current is lower than the specified value. The load current shall be 6 to 8µA. (Namely, the load current shall not be more than or less than this limit range.)
8	Check item 1:	Check the PWM waveform of CH (cycle: 42µs, ON time: 36µs).

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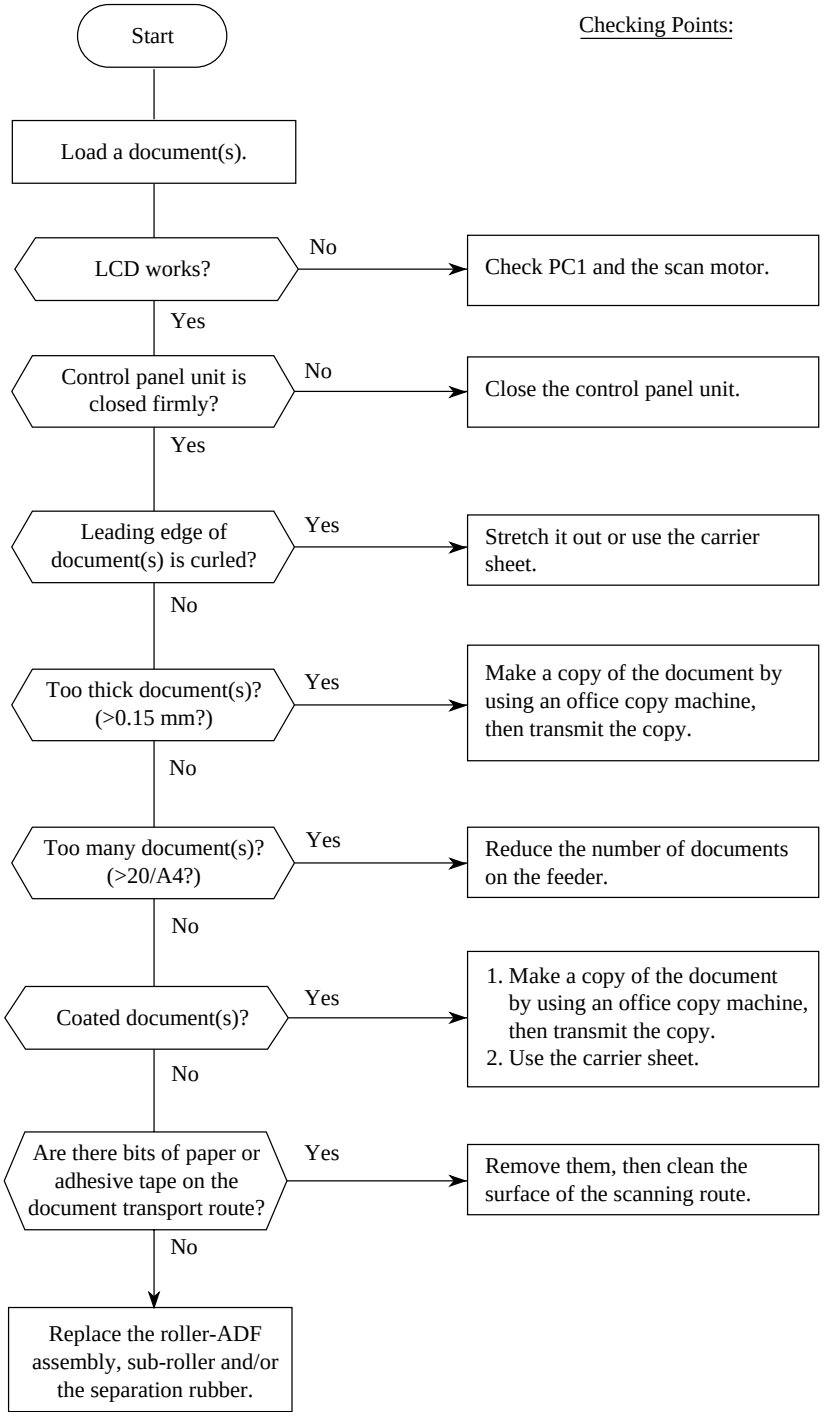
7.1.18 No Document Feeding

Note: This section places an emphasis on troubleshooting of mechanical portions. Therefore, it is recommended to replace the MCNT Board first and, then if not solved, follow this flow chart.


Checking Points:
Start
Load a document(s).
LCD works?
No
Check PC1 and the scan motor.
Yes
Control panel unit is closed firmly?
No
Close the control panel unit.
Yes
Leading edge of document(s) is curled?
Yes
Stretch it out or use the carrier sheet.
No
Too thick document(s)? (>0.15 mm?)
Yes
Make a copy of the document by using an office copy machine, then transmit the copy.
No
Too many document(s)? (>20/A4?)
Yes
Reduce the number of documents on the feeder.
No
Coated document(s)?
Yes
1. Make a copy of the document by using an office copy machine, then transmit the copy.
2. Use the carrier sheet.
No
Are there bits of paper or adhesive tape on the document transport route?
Yes
Remove them, then clean the surface of the scanning route.
No
Replace the roller-ADF assembly, sub-roller and/or the separation rubber.

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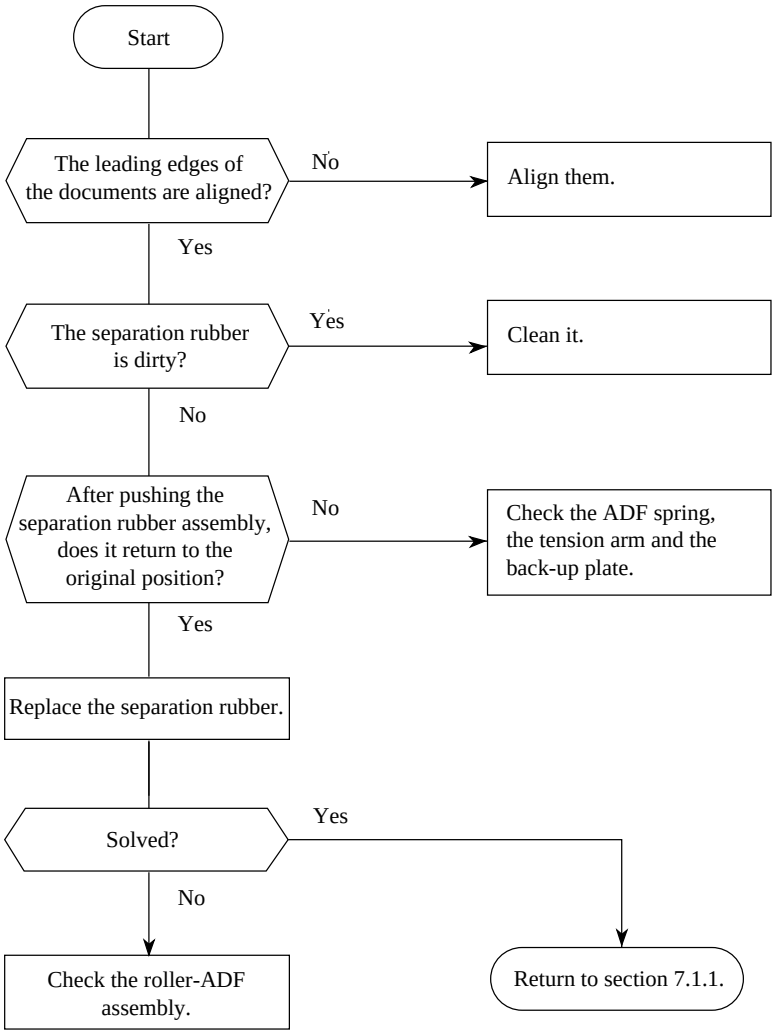
7.1.19 Multiple Document Feeding

Definition: Multiple document feeding.
Multiple documents are not separated and they are fed in the same one feeding operation.



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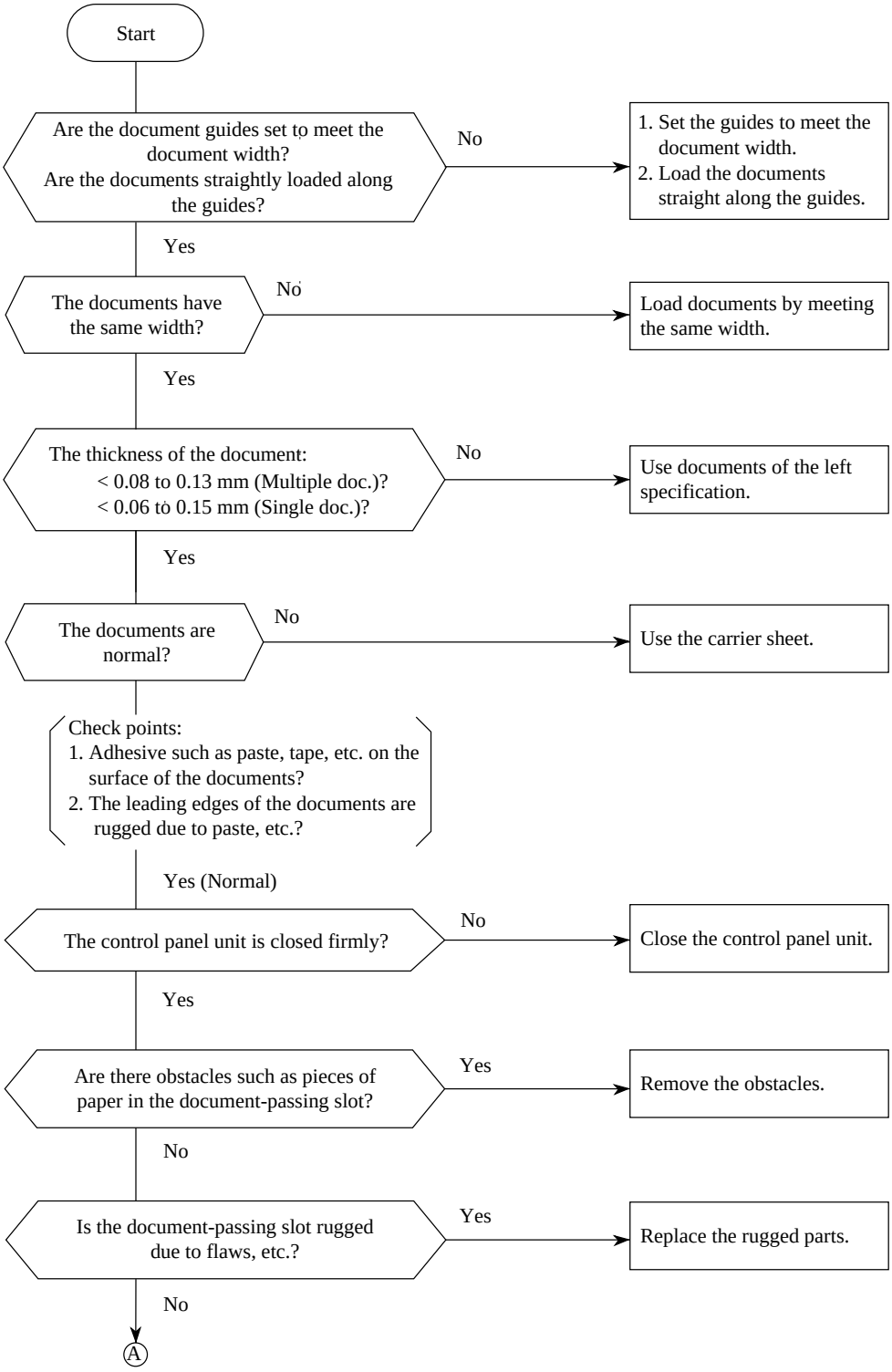
7.1.20 Document Skew


Start
Are the document guides set to meet the document width?
Are the documents straightly loaded along the guides?
No
1. Set the guides to meet the document width.
2. Load the documents straight along the guides.
Yes
The documents have the same width?
No
Load documents by meeting the same width.
Yes
The thickness of the document:
< 0.08 to 0.13 mm (Multiple doc.)?
< 0.06 to 0.15 mm (Single doc.)?
No
Use documents of the left specification.
Yes
The documents are normal?
No
Use the carrier sheet.
Check points:
1. Adhesive such as paste, tape, etc. on the surface of the documents?
2. The leading edges of the documents are rugged due to paste, etc.?
Yes (Normal)
The control panel unit is closed firmly?
No
Close the control panel unit.
Yes
Are there obstacles such as pieces of paper in the document-passing slot?
Yes
Remove the obstacles.
No
Is the document-passing slot rugged due to flaws, etc.?
Yes
Replace the rugged parts.
No
A

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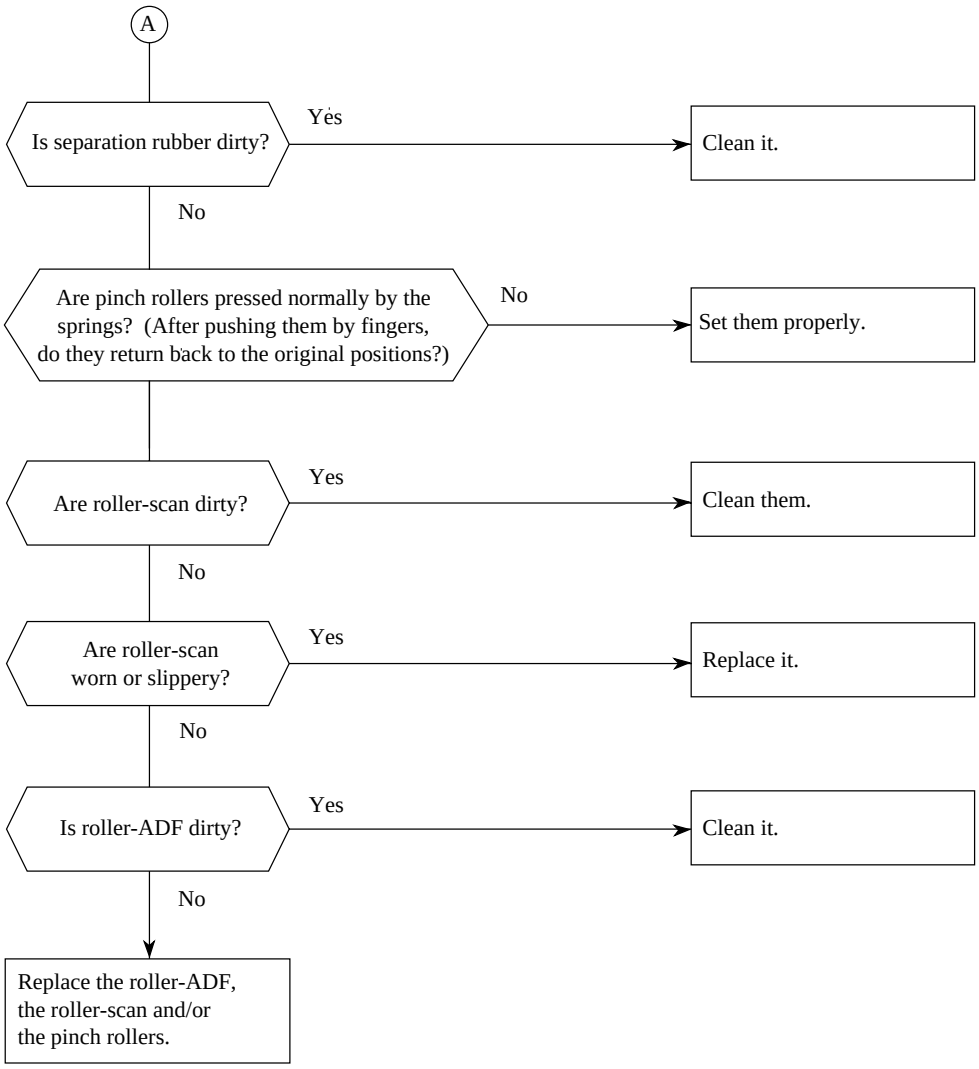

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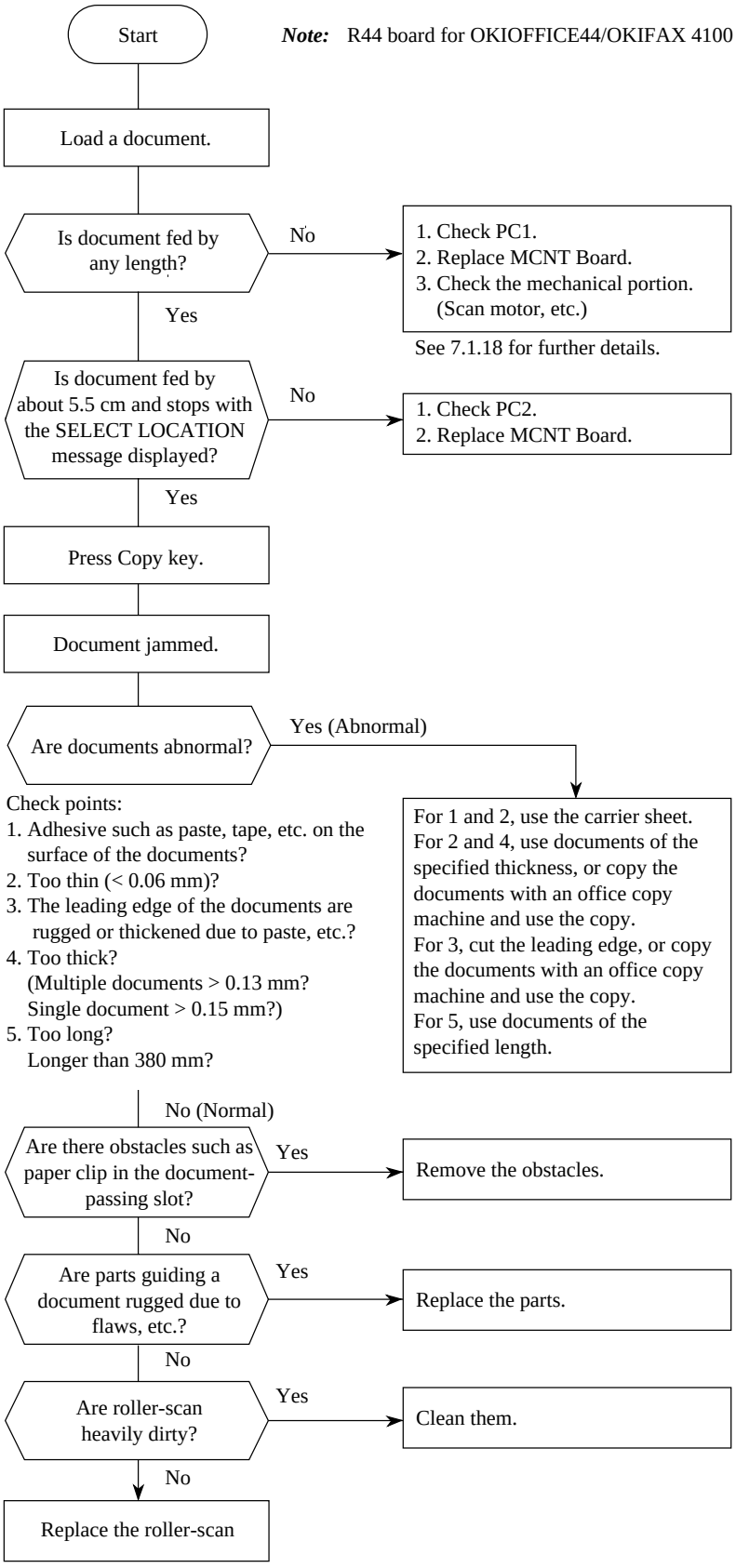
7.1.21 Document Jam



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7.1.22 Printer Unit

7.1.22.1 Precautions

1. Points to check before correcting image troubles
   (1) Is the printer being run in proper ambient conditions?
   (2) Have the supplies (toner) and the routine replacement part (EP unit) been replaced properly?
   (3) Is the recording paper normal?
   (4) Has the EP unit been loaded properly?

2. Tips for correcting image troubles
   (1) Do not touch, or bring foreign matter into contact with the surface of the drum.
   (2) Do not expose the drum to direct sunlight.
   (3) Keep hands off the fuser unit as it is heated during operation.
   (4) Do not expose the drum to light for longer than 5 minutes at room temperature.

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7.1.22.2 Troubleshooting Flow Charts of Printer Unit

Overall troubleshooting flow chart:

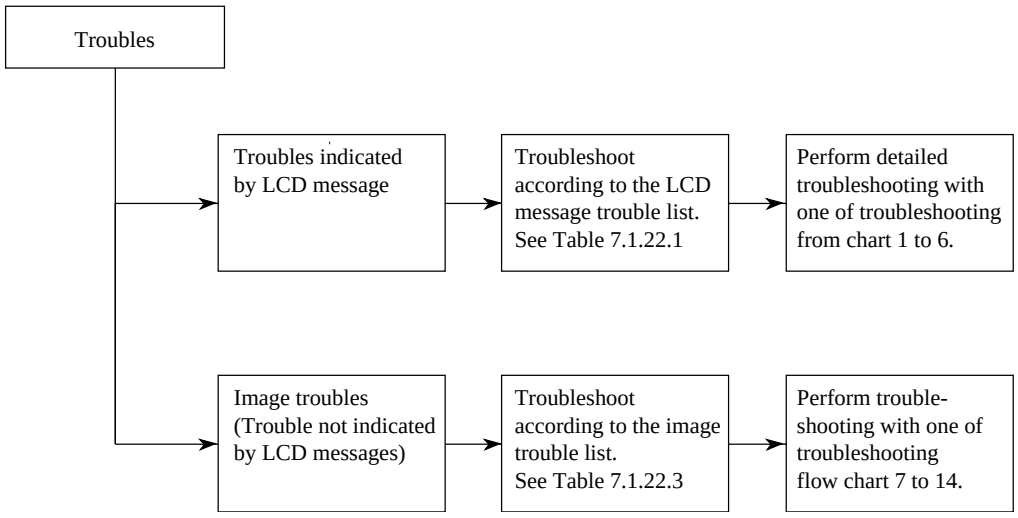
Troubles
Troubles indicated by LCD message
Troubleshoot according to the LCD message trouble list. See Table 7.1.22.1
Perform detailed troubleshooting with one of troubleshooting from chart 1 to 6.
Image troubles (Trouble not indicated by LCD messages)
Troubleshoot according to the image trouble list. See Table 7.1.22.3
Perform trouble-shooting with one of troubleshooting flow chart 7 to 14.

Table 7.1.22.1 LCD Message Trouble List

Category	LCD message display	Trouble	Troubleshooting flow chart number
Cover open	14:14 [FAX] COVER OPEN	The cover (cover-top) is open.	1
Image drum alarm	14:14 [FAX] CHANGE DRUM SOON	Warning message to replace EP unit because of its life.	2
Engine errors	PRINTER ALARM 2[TEL] PLEASE CONFIRM	Engine controller error	3
	PRINTER ALARM 4[TEL] PLEASE CONFIRM	Fuser unit thermal error	4
Recording paper/ jam error	PAPER OUT/JAM [FAX] REPLACE PAPER	Recording paper feed jam, transport jam, ejection jam, recording size error	5
Paper cassette request	PAPER OUT/JAM [FAX] REPLACE PAPER	No recording paper tray or no recording paper	6
Daily status	TONER LOW [FAX] REPLACE TONER CART.	Toner is running short. Note: No toner memory RX is ON.	
	14:14 [FAX] REPLACE TONER CART.	Toner is running short. Note: No toner memory RX is OFF.	

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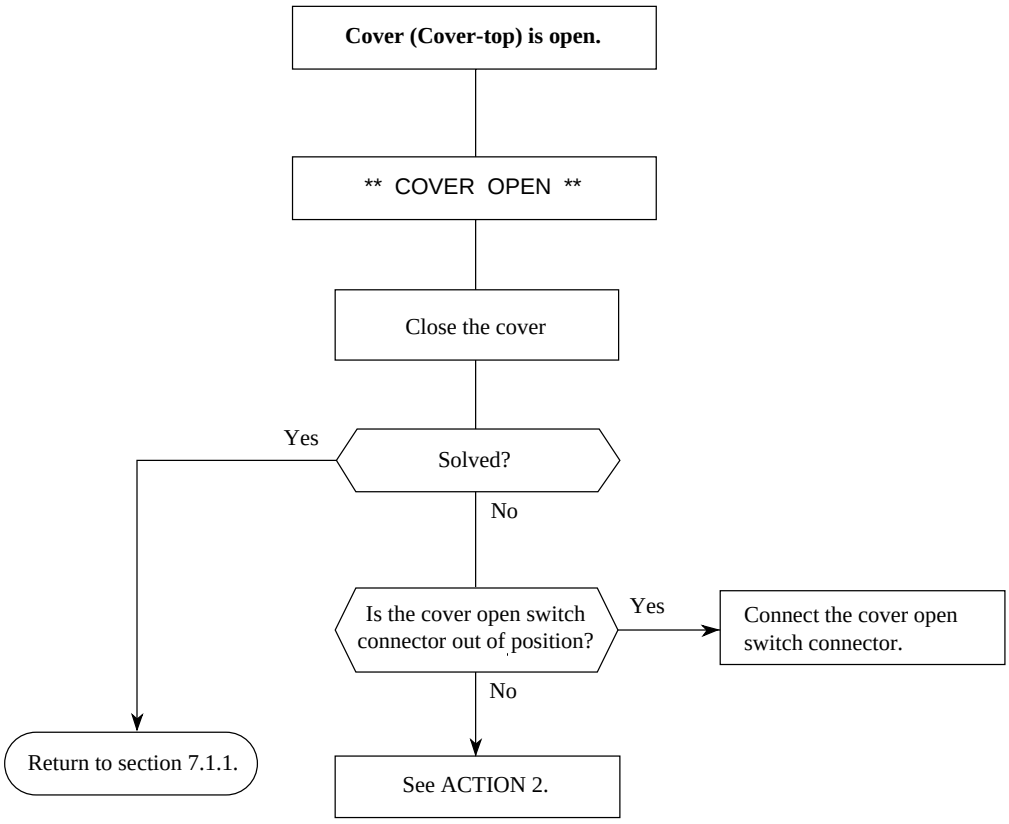
Troubleshooting flow chart 1:



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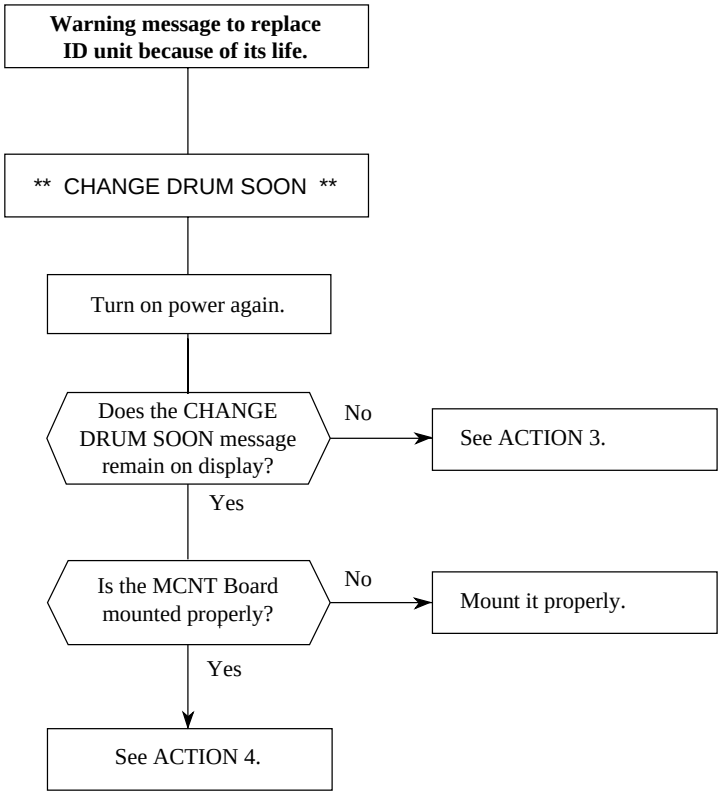
Troubleshooting flow chart 2:



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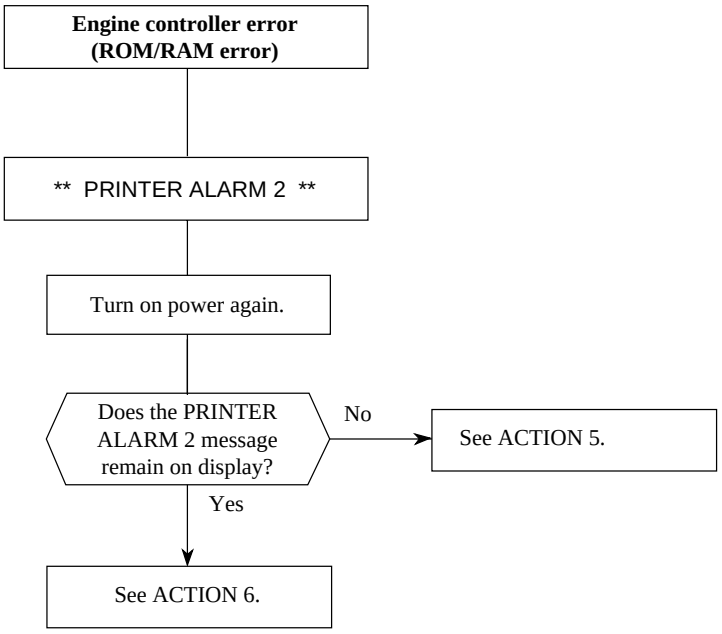
Troubleshooting flow chart 3:



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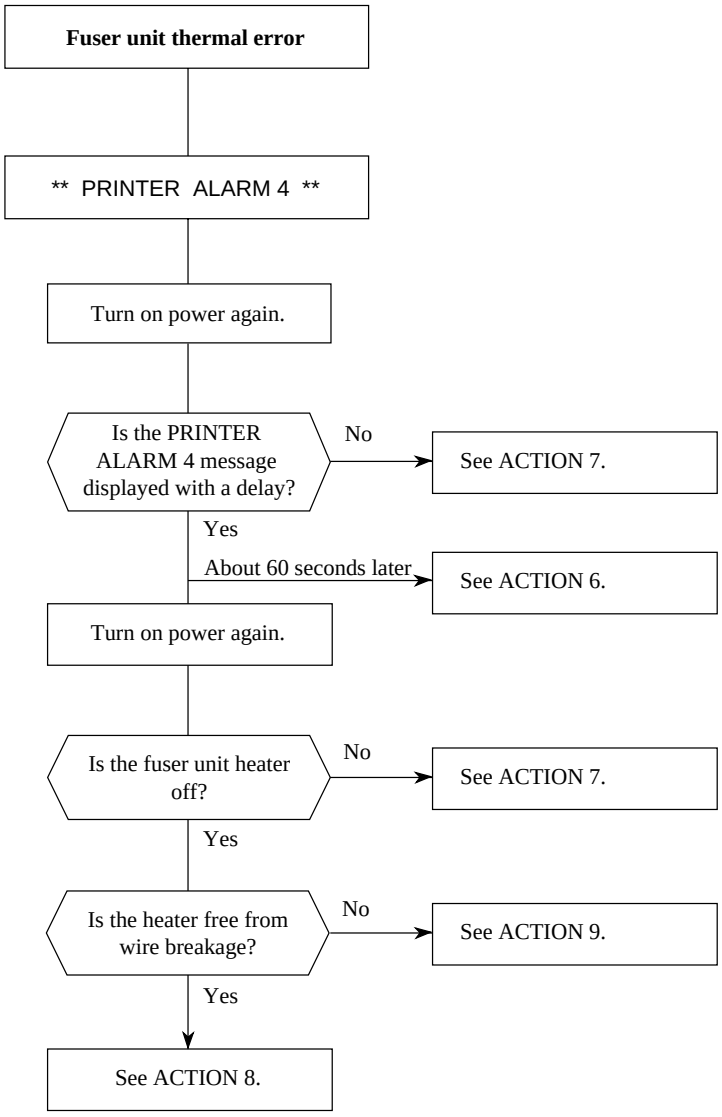
Troubleshooting flow chart 4:



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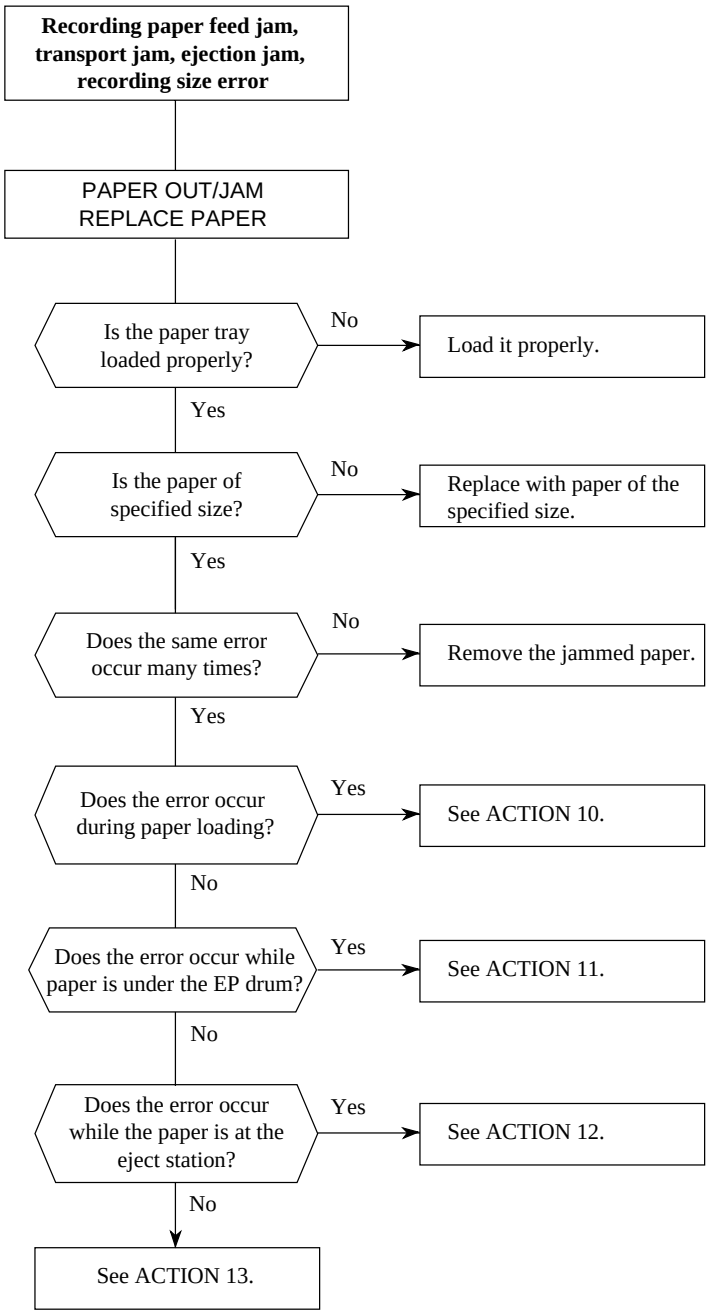
Troubleshooting flow chart 5:



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Troubleshooting flow chart 6:

No recording paper tray or not recording paper

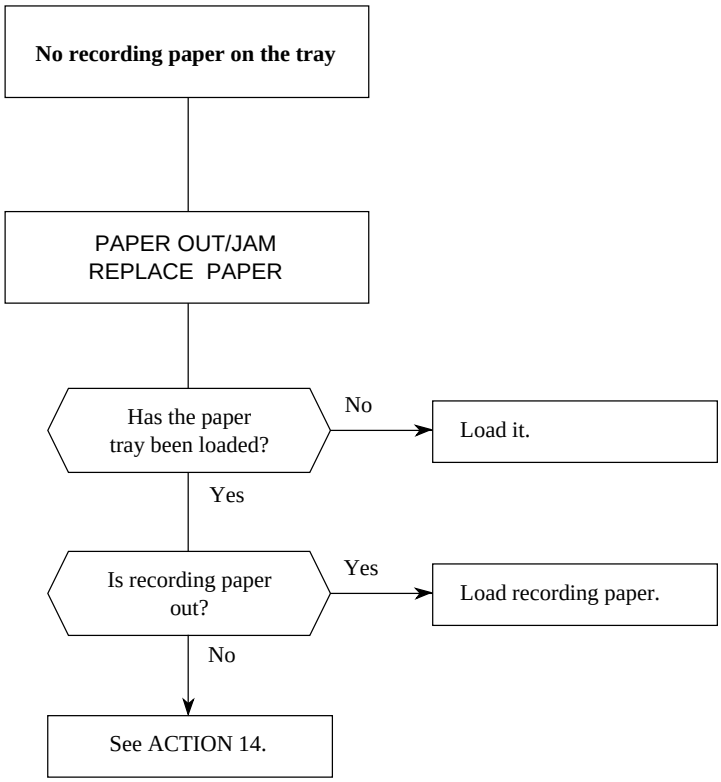

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Table 7.1.22.2 Action Items (Printer Unit-LCD Message)

No.	ACTION	No.	ACTION
1	Check MCNT Board.	8	Check connection between the PWU and the fuser assembly, heater, thermostat.
2	Check PWU-HV Board cover open switch, cover open switch connection. Check MCNT Board.	9	Check PWU.
3	Return to Section 7.1.	10	Check Sensor-E, magnet-H, hopping roller, pulse motor, MCNT Board, Action of Idle gear-P.
4	Replace the EP Unit. And clear Drum Count, Section 6.3.	11	Check Gear-T, MCNT Board, PWU-HV Board.
5	Check installation of MCNT board, POWER SUPPLY UNIT board.	12	Check exit sensor lever, PWU
6	Check MCNT Board.	13	Check MCNT Board.
7	Check thermister (resistance of about 200 kilo ohms at room temperature and about 140 kilo ohms at high temperature), POWER SUPPLY UNIT.	14	Check PWU, MCNT board.

Note: R44 board for OKIFAX 4100/OKIOFFICE44 is shown as MCNT.

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Table 7.1.22.3 Image Troubles

Abnormal Symptom	Reference Figure	Troubleshooting Flow Chart No.
Images are light or blurred as a whole.	Fig. Ⓐ	7
The blank background is smeared.	Fig. Ⓑ	8
Blank paper is output.	Fig. Ⓒ	9
Black belts or black stripes in vertical direction.	Fig. Ⓓ	10
Periodic abnormal printing.	Fig. Ⓔ	11
Some parts not printed.	—	12
White belts or some white stripes in vertical direction	Fig. Ⓕ	13
Poor fusing (Images are blurred or peeled off when touched by hands)	—	14

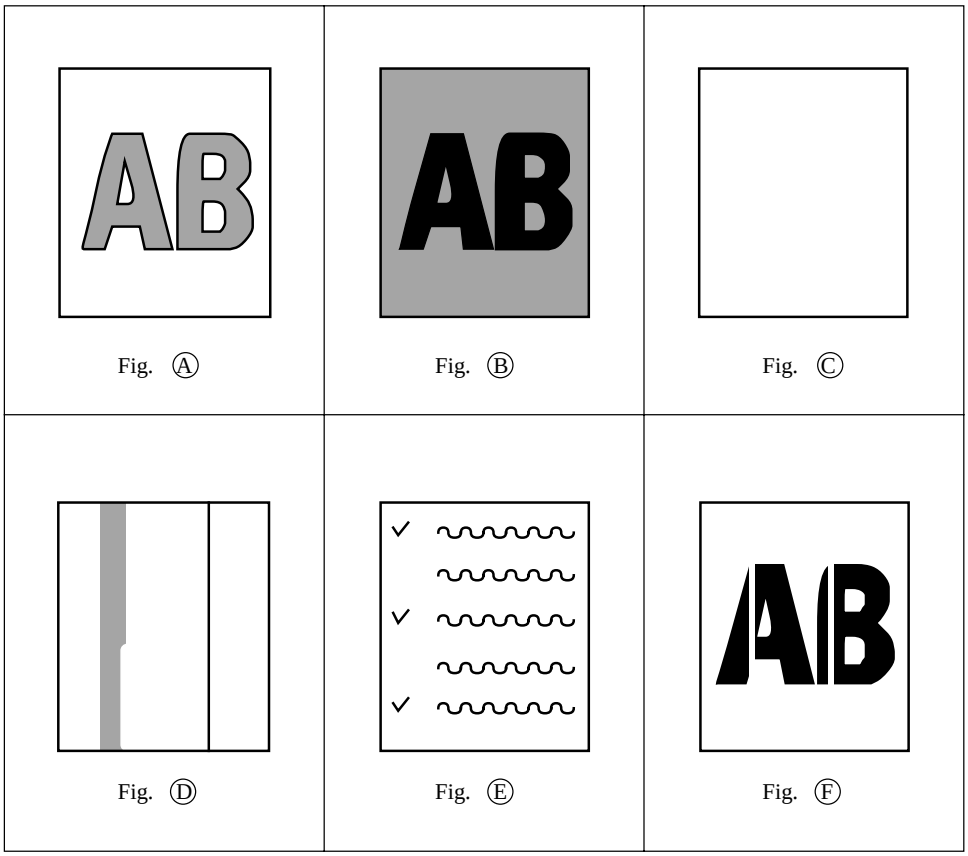

Figure 7.1.22.1 Abnormal Symptoms of Image Troubles (Example)

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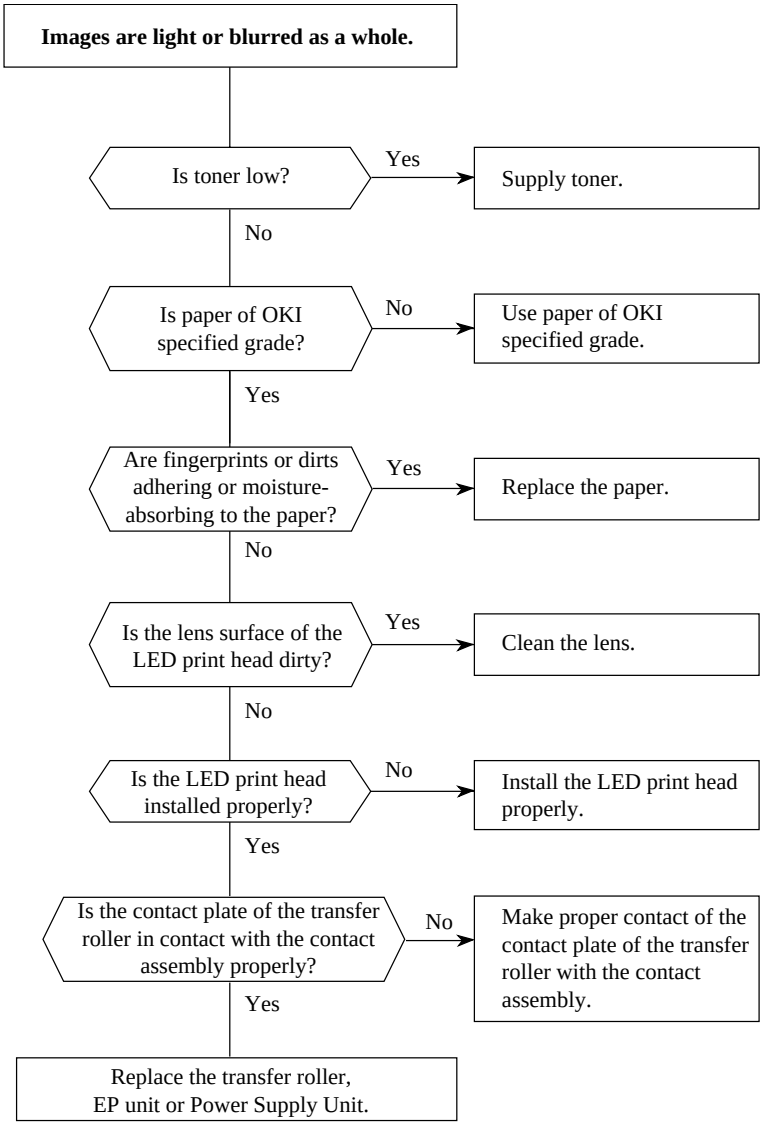
Troubleshooting flow chart 7:


Images are light or blurred as a whole.
Is toner low?
Yes
Supply toner.
No
Is paper of OKI specified grade?
No
Use paper of OKI specified grade.
Yes
Are fingerprints or dirts adhering or moisture-absorbing to the paper?
Yes
Replace the paper.
No
Is the lens surface of the LED print head dirty?
Yes
Clean the lens.
No
Is the LED print head installed properly?
No
Install the LED print head properly.
Yes
Is the contact plate of the transfer roller in contact with the contact assembly properly?
No
Make proper contact of the contact plate of the transfer roller with the contact assembly.
Yes
Replace the transfer roller, EP unit or Power Supply Unit.

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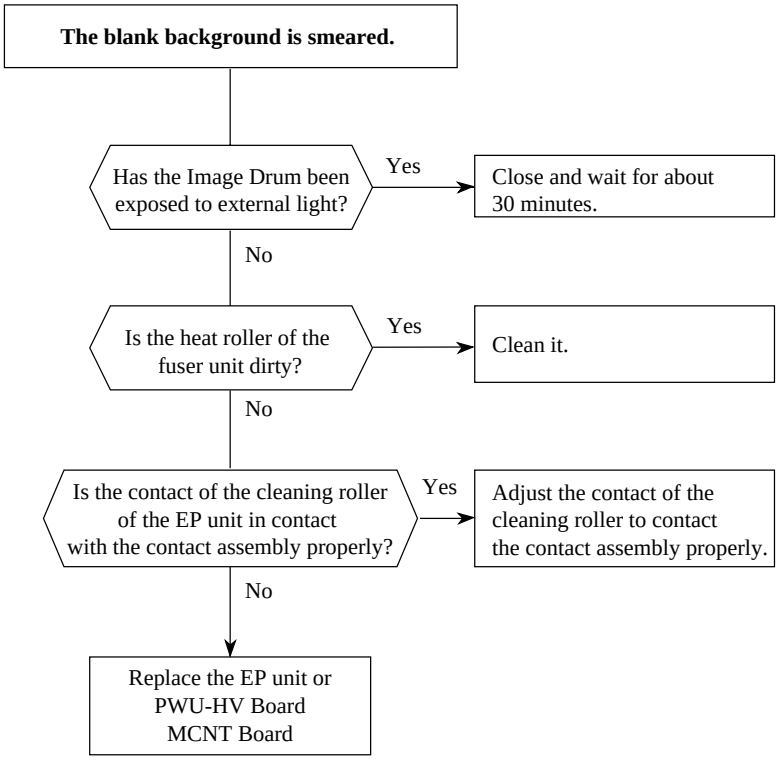
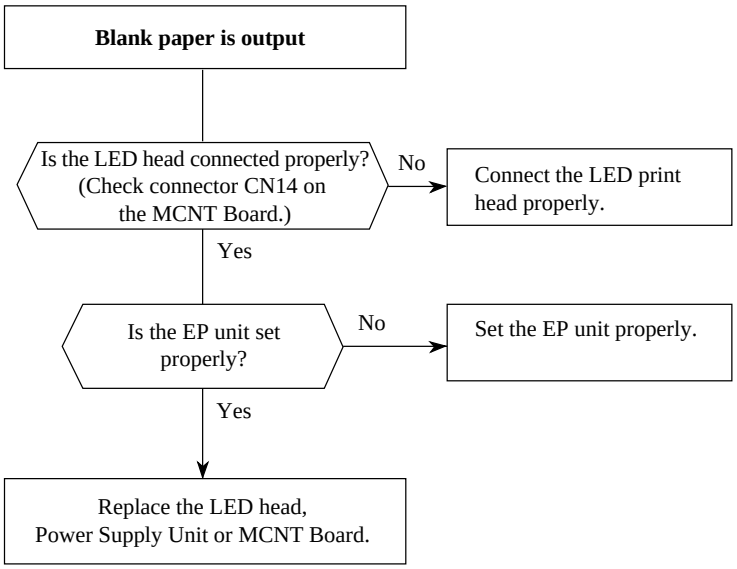
Troubleshooting flow chart 8:


The blank background is smeared.
Has the Image Drum been exposed to external light?
Yes
Close and wait for about 30 minutes.
No
Is the heat roller of the fuser unit dirty?
Yes
Clean it.
No
Is the contact of the cleaning roller of the EP unit in contact with the contact assembly properly?
Yes
Adjust the contact of the cleaning roller to contact the contact assembly properly.
No
Replace the EP unit or
PWU-HV Board
MCNT Board

Troubleshooting flow chart 9:


Blank paper is output
Is the LED head connected properly? (Check connector CN14 on the MCNT Board.)
No
Connect the LED print head properly.
Yes
Is the EP unit set properly?
No
Set the EP unit properly.
Yes
Replace the LED head,
Power Supply Unit or MCNT Board.

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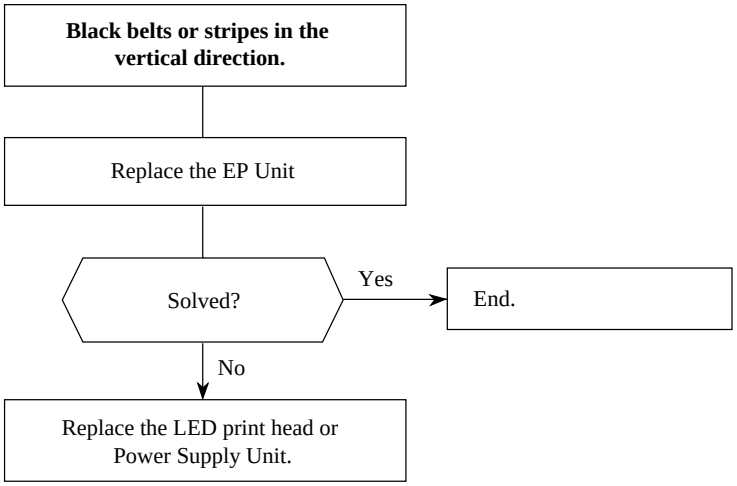
Troubleshooting flow chart 10:



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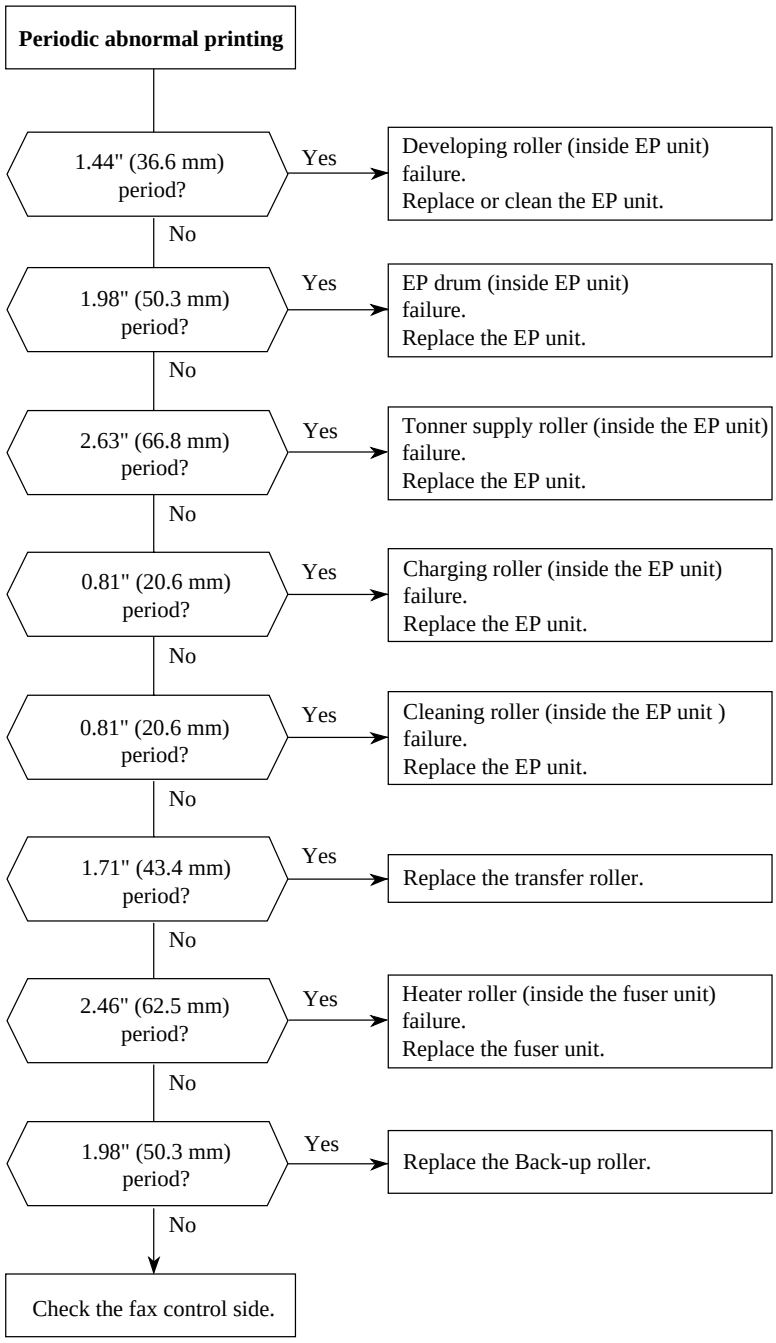
Troubleshooting flow chart 11:



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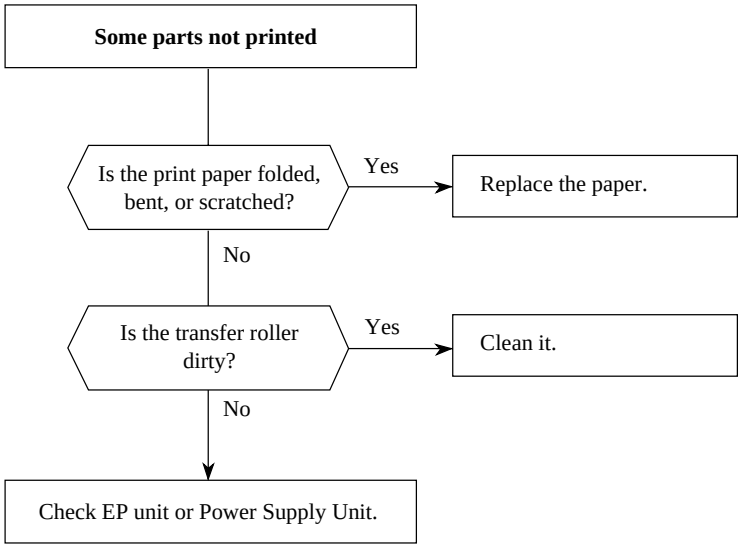
Troubleshooting flow chart 12:



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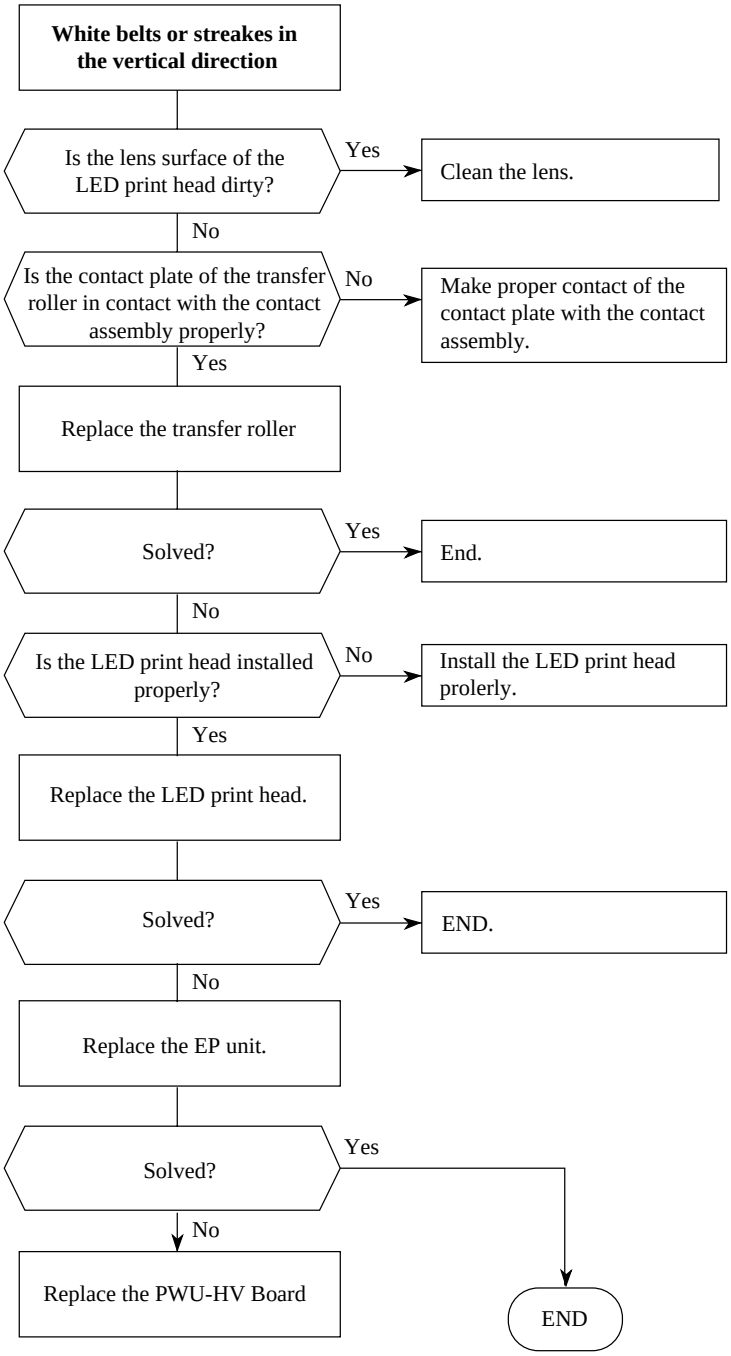
Troubleshooting flow chart 13:



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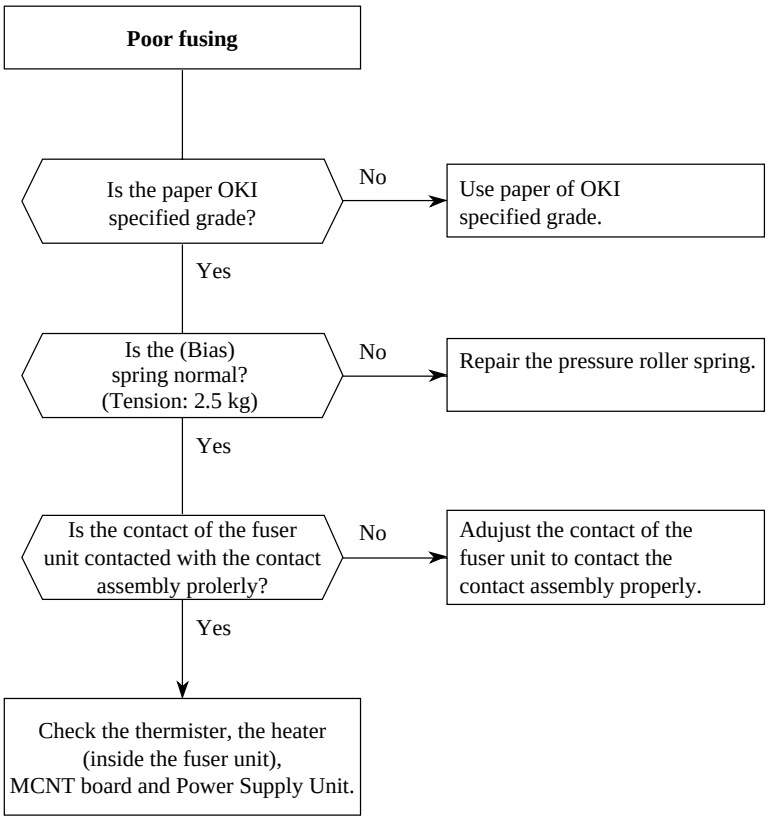
Troubleshooting flow chart 14:


Poor fusing
Is the paper OKI specified grade?
No
Use paper of OKI specified grade.
Yes
Is the (Bias) spring normal? (Tension: 2.5 kg)
No
Repair the pressure roller spring.
Yes
Is the contact of the fuser unit contacted with the contact assembly prolerly?
No
Adujust the contact of the fuser unit to contact the contact assembly properly.
Yes
Check the thermister, the heater (inside the fuser unit), MCNT board and Power Supply Unit.

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OKIFAX 1050/2350/2450/5200/5300/5500/5600/4100/OKIOFFICE44 Extension cable lists

No.	Oki Parts Number	Description	Remarks	OKIFAX 1050	OKIFAX 2350	OKIFAX 2450	OKIFAX 5200/5300	OKIFAX 5500/5600	OKIOFFICE44 OKIFAX 4100
1	4YS4111-5655P001	Extension cable (OPE)		O	O	O	•••	•••	•••
2	4YS4111-5656P001	Extension cable (Sensor)		O	O	O	O	O	O
3	4YS4111-5657P001	Extension cable (PC1, 2)		O	O	O	O	O	O
4	4YS4111-5658P001	Extension cable (Speaker)		O	O	O	O	O	O
5	4YS4111-5659P001	Extension cable (PWU)		O	O	O	O	O	•••
6	4YS4111-5660P001	Extension cable (FAN)		O	O	O	O	O	•••
7	4YS4111-5661P001	Extension cable (S-motor)		O	•••	•••	•••	•••	O
8	4YS4111-5662P001	Extension cable (D-motor)		O	•••	•••	•••	•••	•••
9	4YS4111-5663P001	Extension cable (R-motor)		O	•••	•••	•••	•••	•••
10	4YS4111-5664P001	Extension cable (S-motor)		•••	O	O	O	O	•••
11	4YS4111-5665P001	Extension cable (D-motor)		•••	O	O	O	O	•••
12	4YS4111-5666P001	Extension cable (R-motor)		•••	O	O	O	O	O
13	4YS4111-5667P001	Extension cable (2nd)		•••	O	O	O	O	•••
14	238A1071P0006	SUMI card (LED head)		O	O	O	O	O	O
15	40331401YS	Connection code; extension (OPE)	OPE/MCNT	•••	•••	•••	O	O	O
16	40331501YS	Connection code; extension (MPSU)	MCNT/MPSU (Power)	•••	•••	•••	•••	•••	O
17	40331602YS	Connection code; extension (Heater)	HEATER AC/PSU	•••	•••	•••	•••	•••	O
18	40331801YS	Connection code; extension (Clutch)	CLUTCH/MCNT	•••	•••	•••	•••	•••	O
19	40332001YS	Connection code; extension	FUJI CARD: MCNT/HVPS	•••	•••	•••	•••	•••	O
20	40332201YS	Connection code; extension (SPSU)	SPSU (Sub-power)/MCNT	•••	•••	•••	O	O	•••
21	40332301YS	Connection code; extension (PSU)	PSU (Power)/SPSU (Sub-power)	•••	•••	•••	O	O	•••
22	40331901YS	Connection code; extension (Transformer)	Transformer/SPSU (Sub-power)	•••	•••	•••	O	O	•••

Note: This table is same as page 7.1-0.

This chapter contains:

(a) Troubleshooting flow charts related to general operations
(b) Troubleshooting flow charts by test operations
(c) Troubleshooting flow charts placing an emphasis on mechanical portions

Section No.	Name of Flow Chart	(a)	(b)	(c)	Page
7.2.1	Overall troubleshooting flow chart	○	○		7.2-2
7.2.2	No LCD operation	○			7.2-3
7.2.3	ALARM LED on	○			7.2-4
7.2.4	Printing test failure	○	○		7.2-5
7.2.5	No local copy	○	○		7.2-6
7.2.6	Auto dial failure	○			7.2-7
7.2.7	Transmission problem	○			7.2-8
7.2.8	Auto reception failure	○			7.2-10
7.2.9	Reception problem	○			7.2-11
7.2.10	Sensor calibration test		○		7.2-13
7.2.11	LED test		○		7.2-14
7.2.12	Tone send test		○		7.2-15
7.2.13	High-speed modem test		○		7.2-16
7.2.14	MF (Tone) send test		○		7.2-18
7.2.15	Tone (TEL/FAX) send test		○		7.2-19
7.2.16	No acoustic line monitor	○			7.2-20
7.2.17	Power supply unit	○			7.2-21
7.2.18	No document feeding			○	7.2-28
7.2.19	Multiple document feeding			○	7.2-29
7.2.20	Document skew			○	7.2-30
7.2.21	Document jam			○	7.2-32
7.2.22	Printer unit				7.2-33

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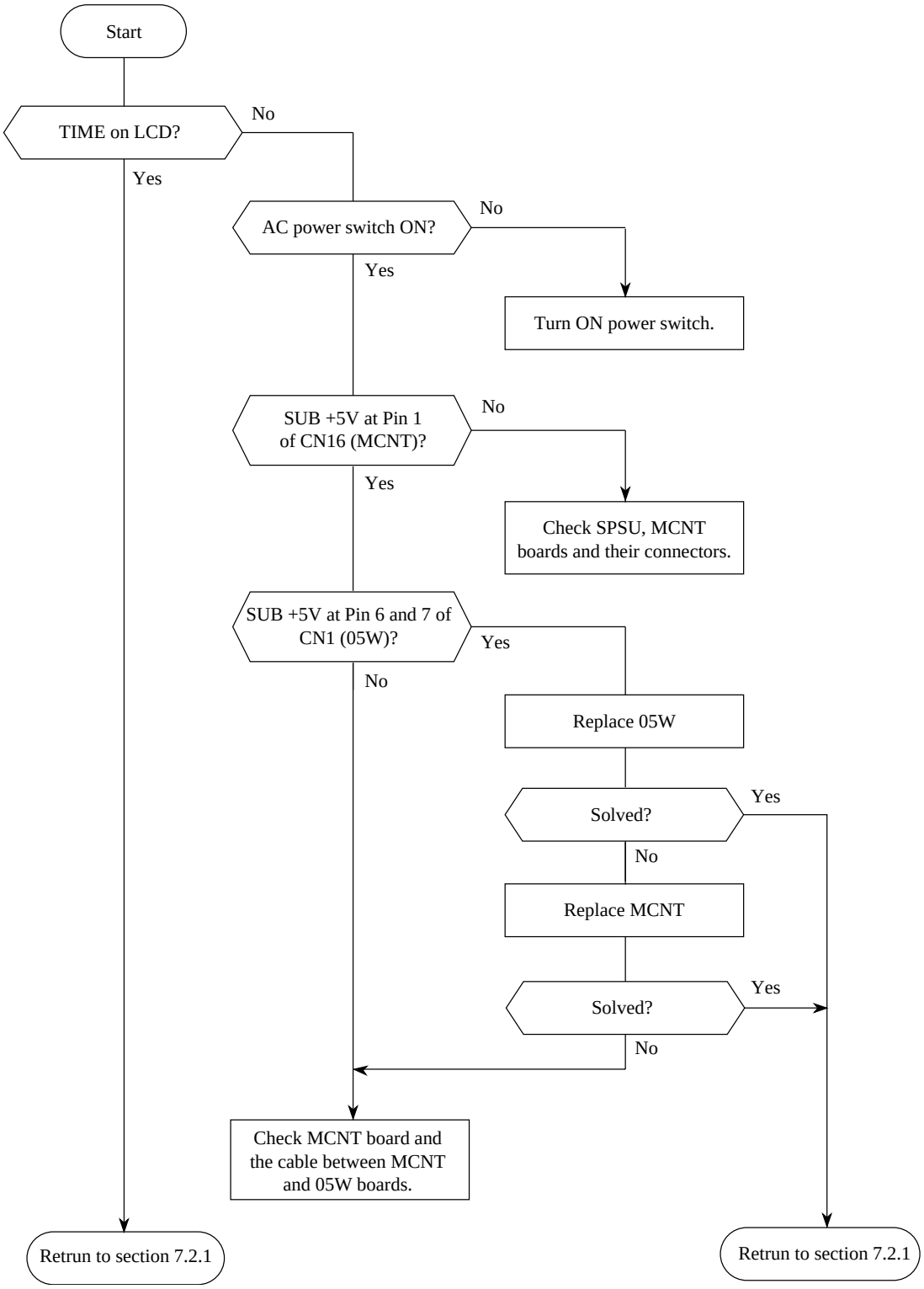
7.2.1 Overall Troubleshooting Flow Chart



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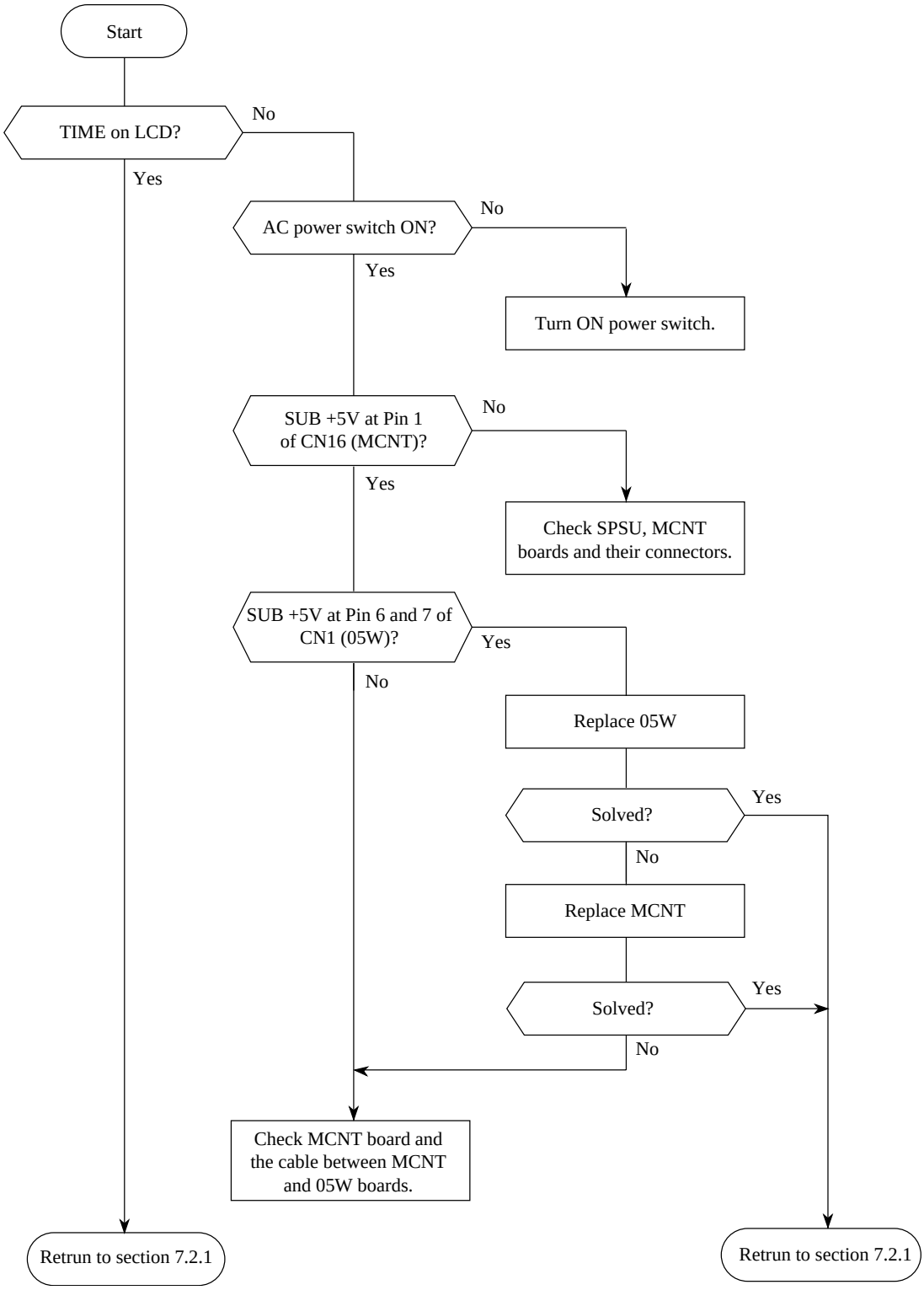
7.2.2 No LCD Operation



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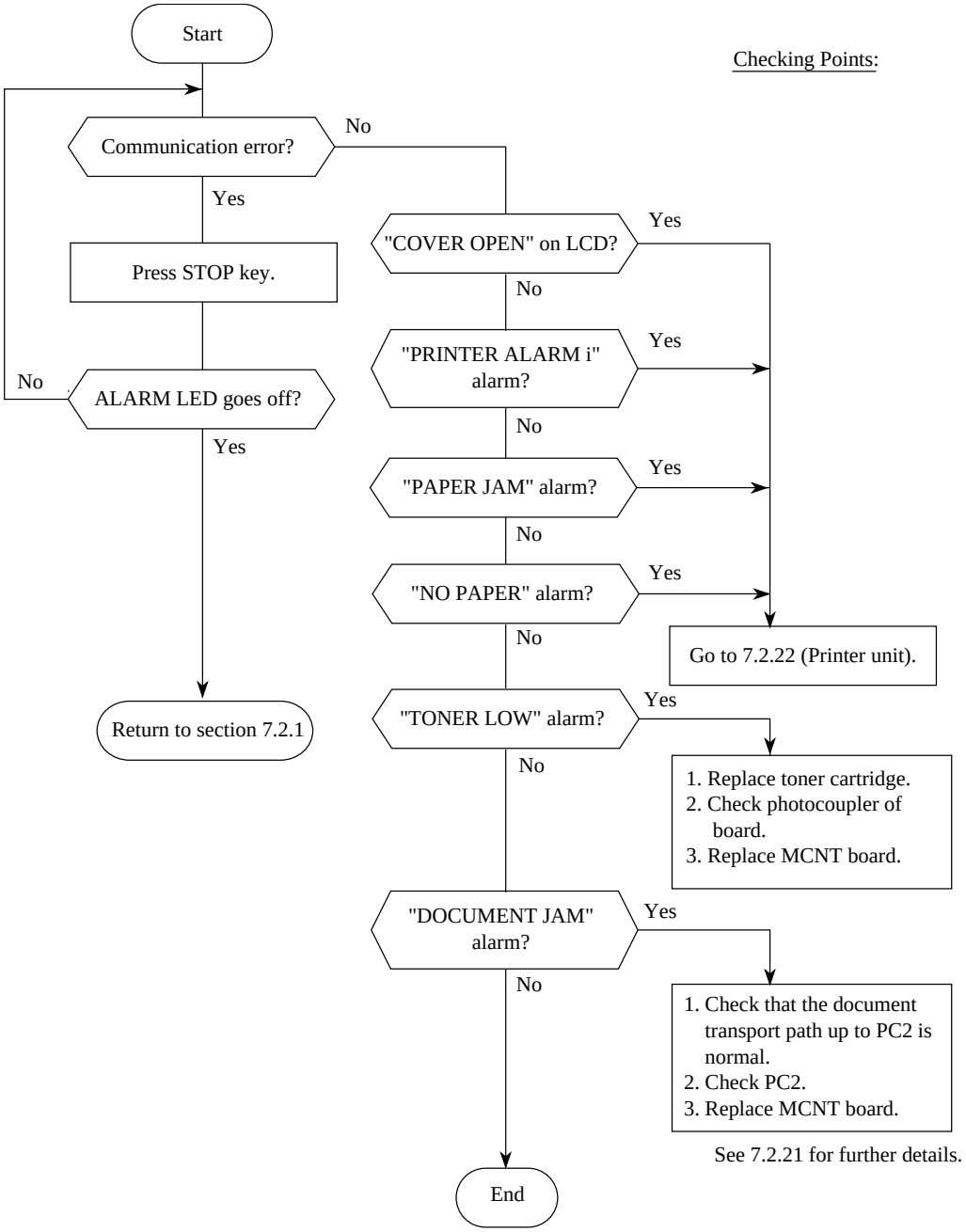
7.2.3 ALARM LED On



Note* : "PRINTER ALARM i" will be shown as follows:
PRINTER ALARM 2 to PRINTER ALARM 4.

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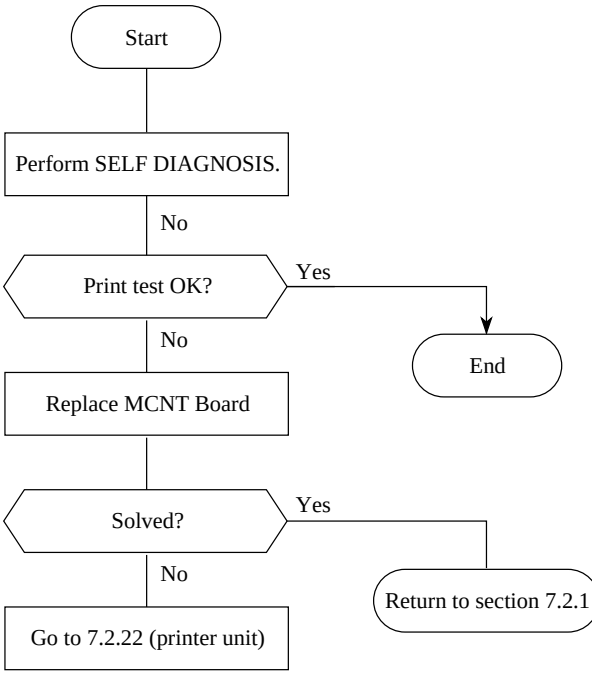
7.2.4 Printing Test Failure



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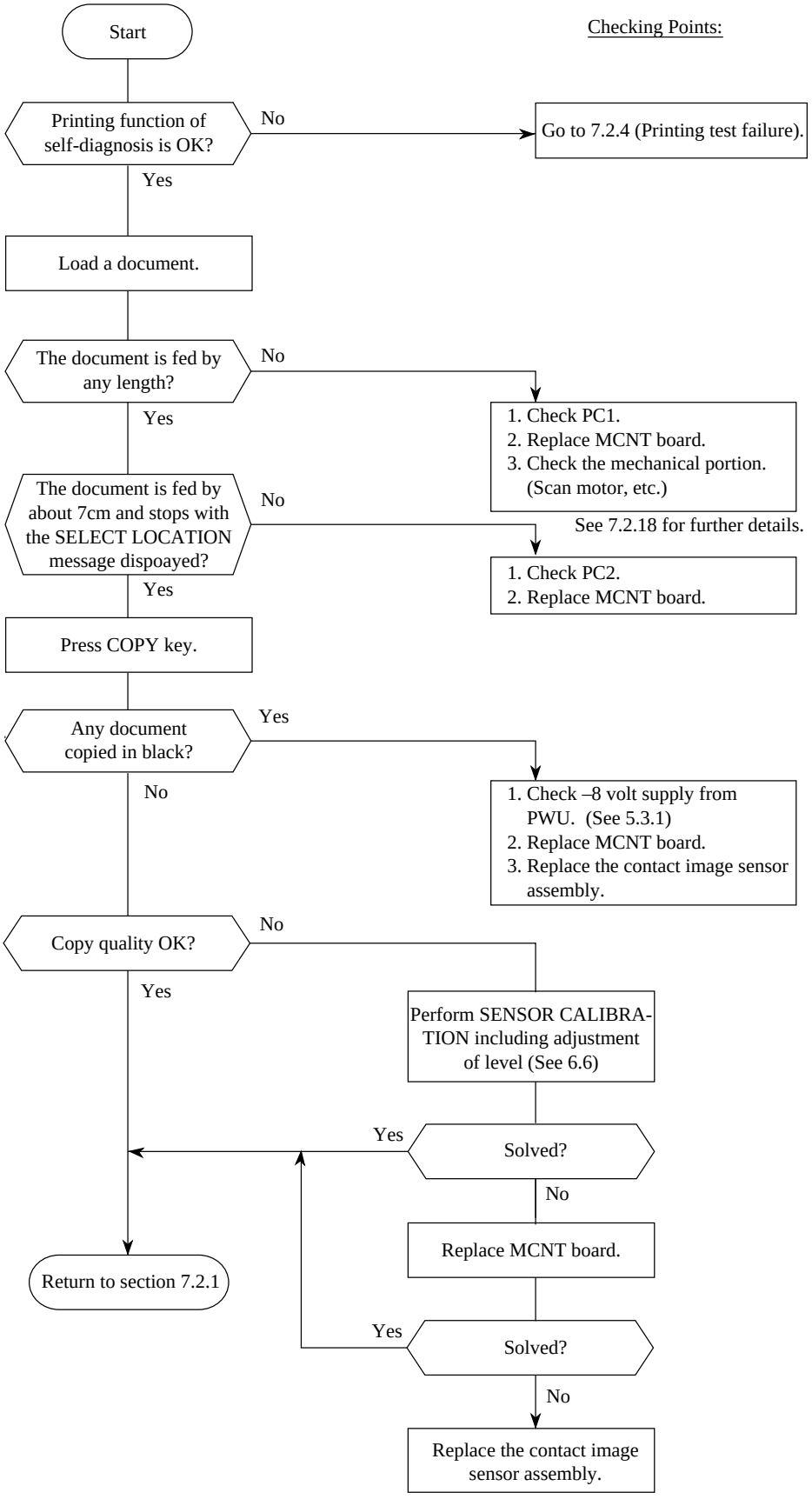
7.2.5 No Local Copy



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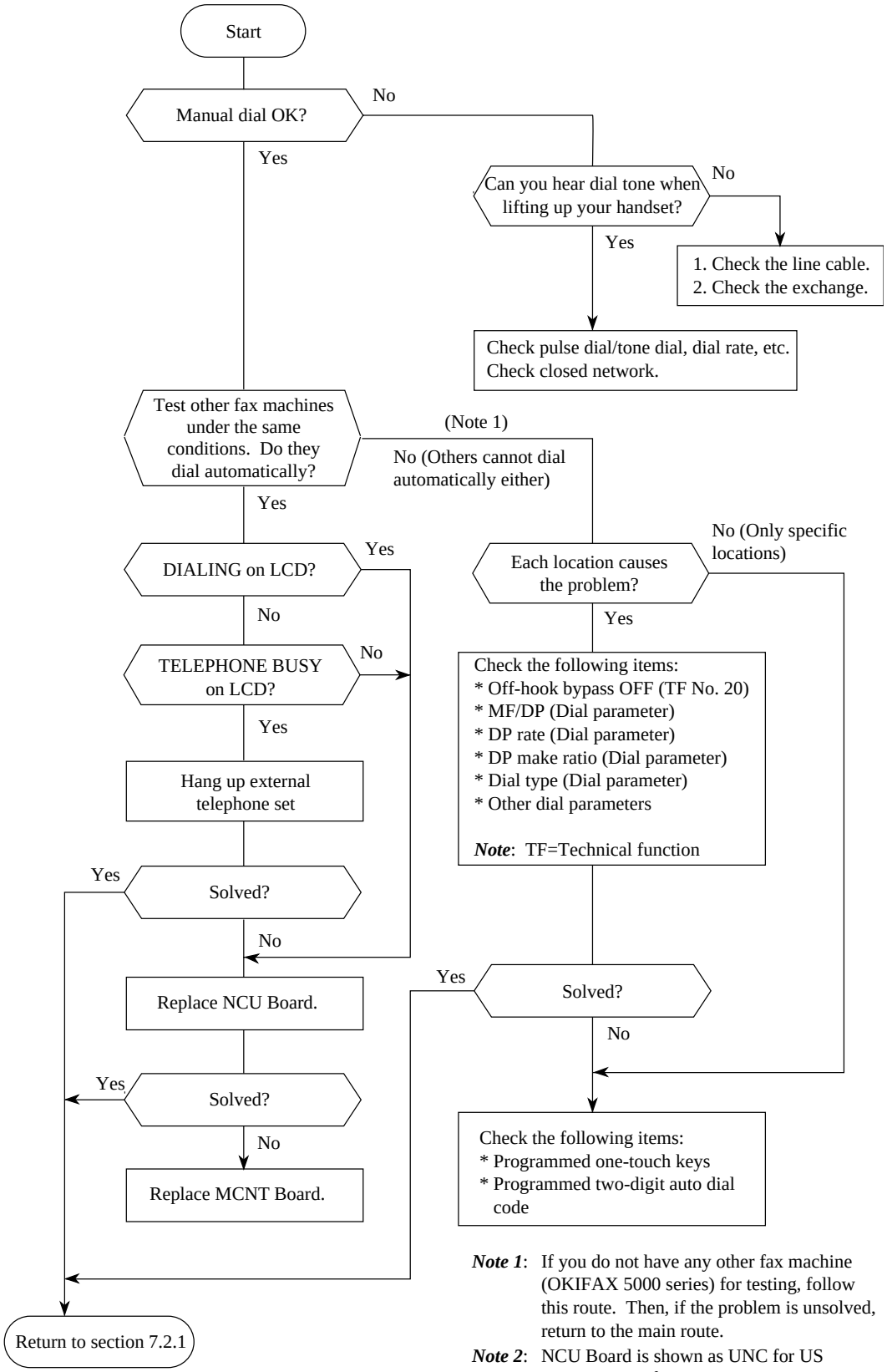
7.2.6 Auto Dial Failure



Note 1: If you do not have any other fax machine (OKIFAX 5000 series) for testing, follow this route. Then, if the problem is unsolved, return to the main route.

Note 2: NCU Board is shown as UNC for US version, WN5 for INT'L version, DN5 for FTZ version and FN5 for U.K. and France

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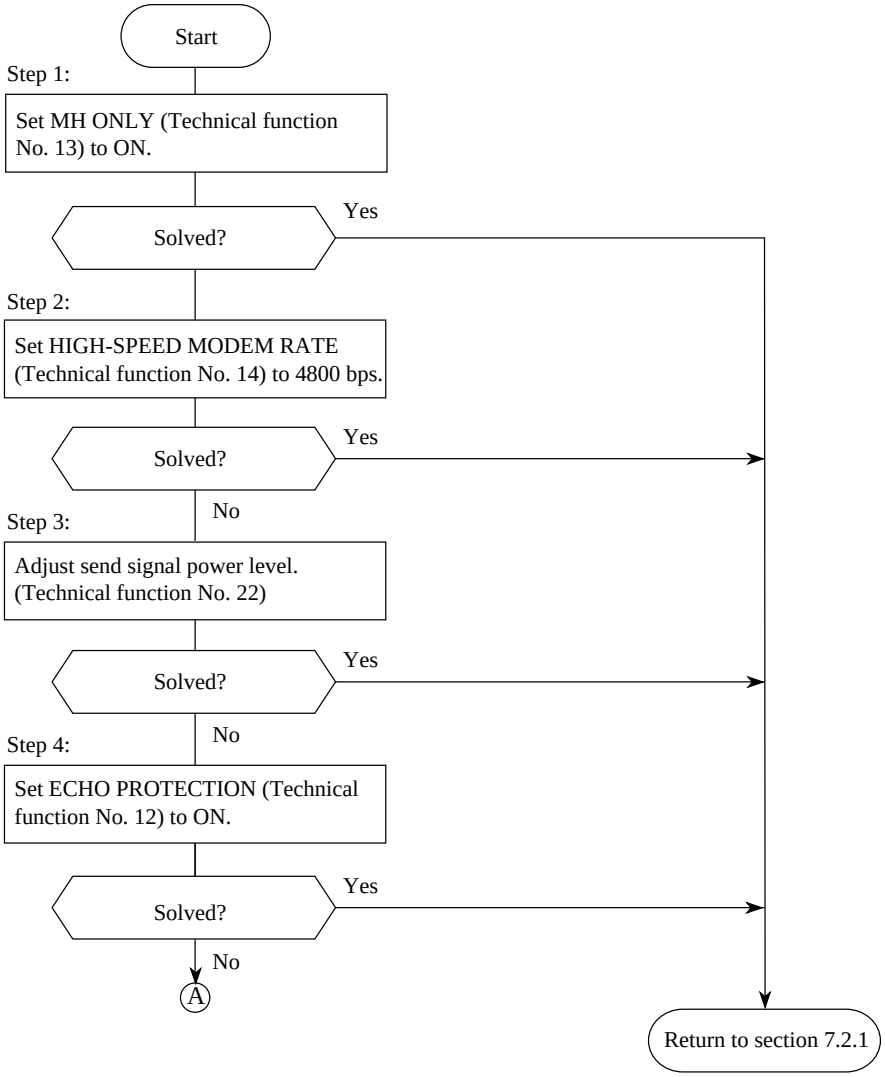
7.2.7 Transmission Problem

This section explains how to localize the cause of problems occurred after completion of connection with a remote station.



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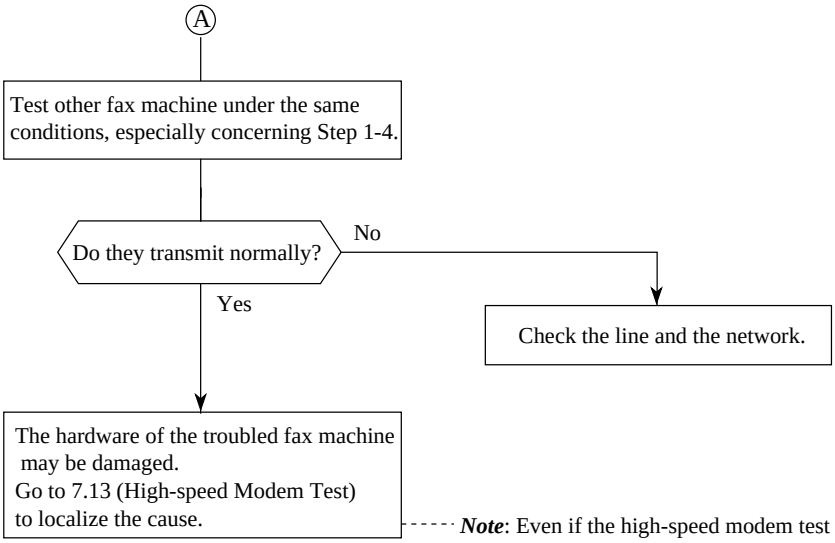
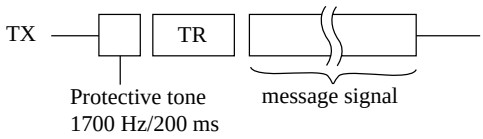

A
Test other fax machine under the same conditions, especially concerning Step 1-4.
Do they transmit normally?
No
Yes
Check the line and the network.
The hardware of the troubled fax machine may be damaged.
Go to 7.13 (High-speed Modem Test) to localize the cause.
Note: Even if the high-speed modem test results in success, 300 bps signal route remains unchecked. In that case, the most suspected unit is MCNT Board.

Description: Protective tone is 1700 Hz/200 ms.
This signal is added to training signal to protect the training signal against echo as follows.



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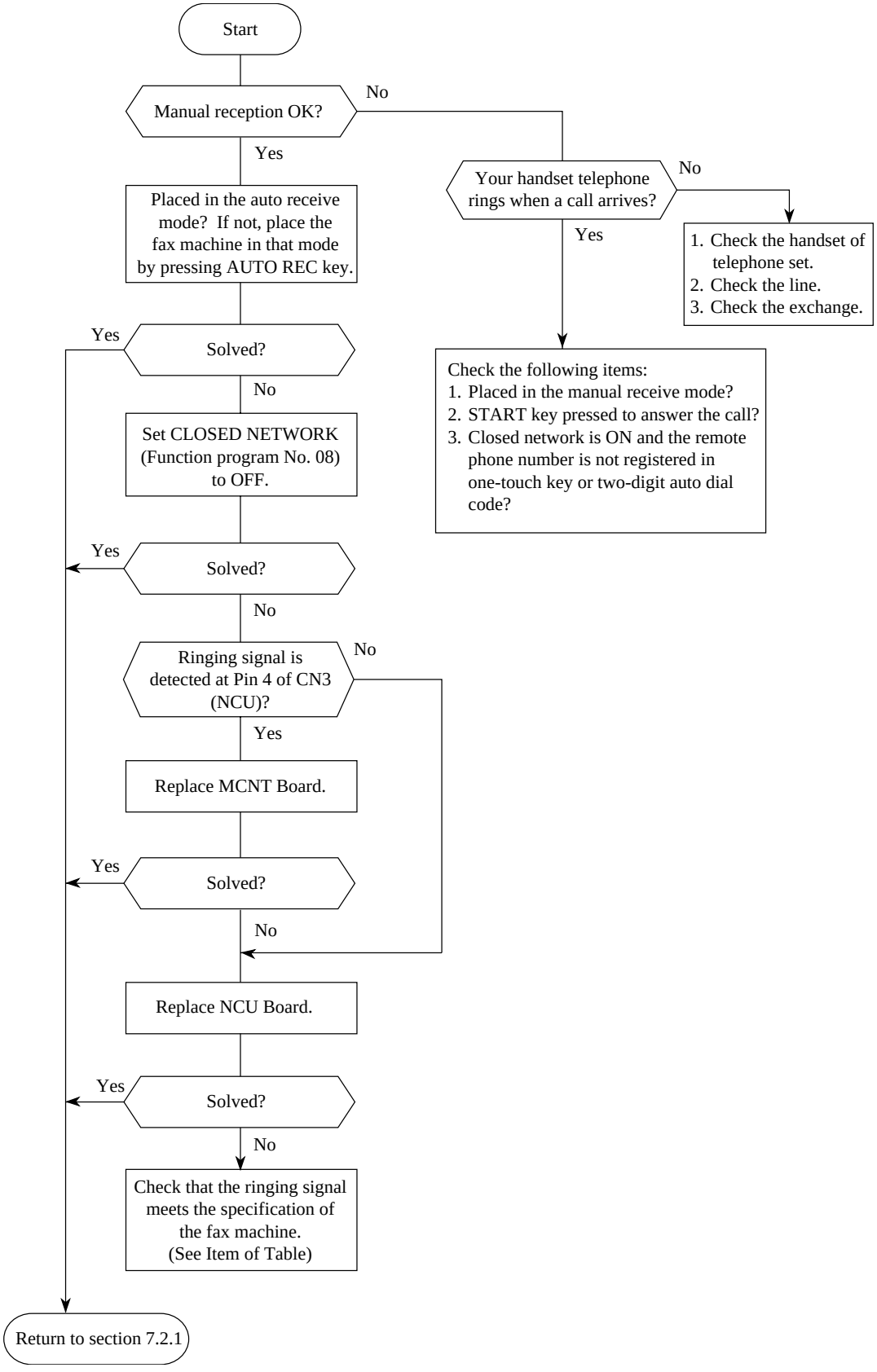
7.2.8 Auto Reception Failure


Start
Manual reception OK?
No
Yes
Your handset telephone rings when a call arrives?
No
Yes
1. Check the handset of telephone set.
2. Check the line.
3. Check the exchange.
Placed in the auto receive mode? If not, place the fax machine in that mode by pressing AUTO REC key.
Check the following items:
1. Placed in the manual receive mode?
2. START key pressed to answer the call?
3. Closed network is ON and the remote phone number is not registered in one-touch key or two-digit auto dial code?
Yes
Solved?
No
Set CLOSED NETWORK (Function program No. 08) to OFF.
Yes
Solved?
No
Ringing signal is detected at Pin 4 of CN3 (NCU)?
No
Yes
Replace MCNT Board.
Yes
Solved?
No
Replace NCU Board.
Yes
Solved?
No
Check that the ringing signal meets the specification of the fax machine. (See Item of Table)
Return to section 7.2.1

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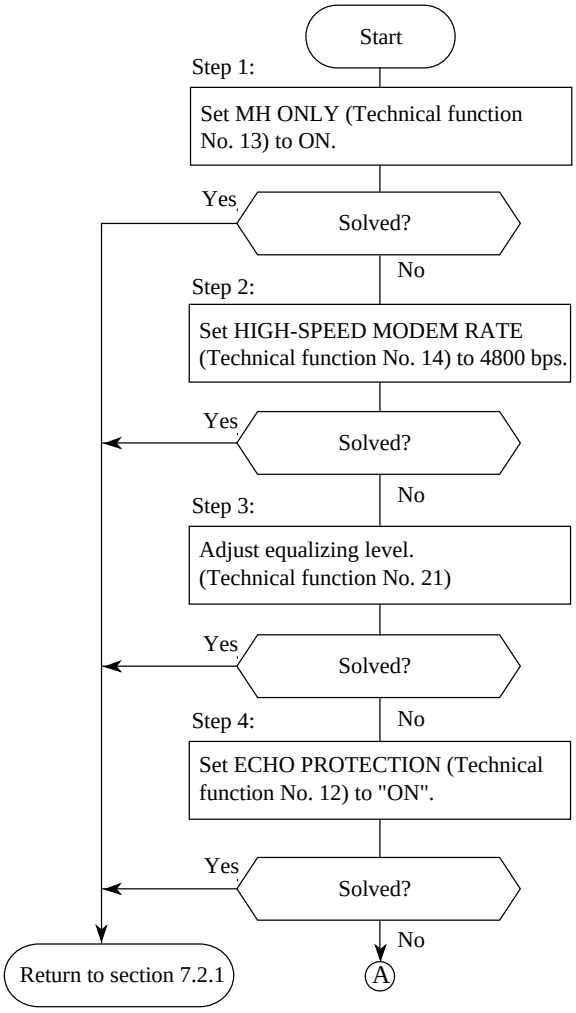
7.2.9 Reception Problem

This section explains how to localize the cause of problems occurred after completion of connection with a remote station.



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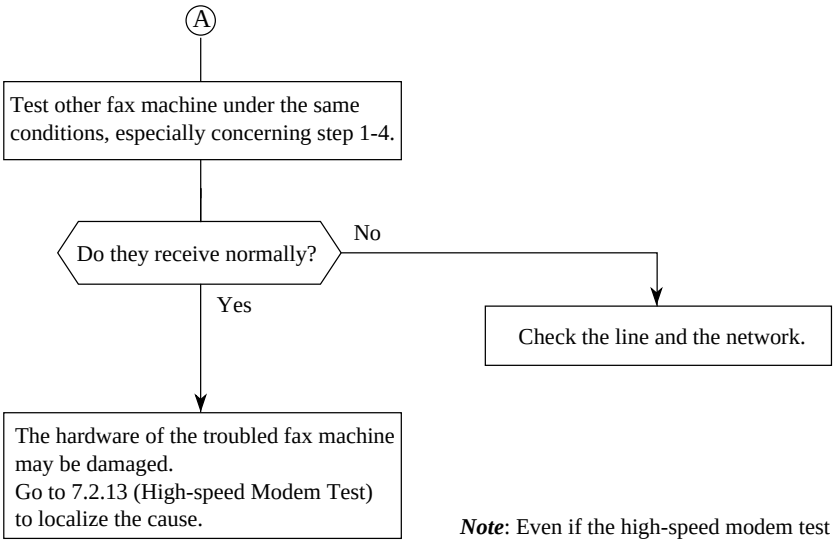
A
Test other fax machine under the same conditions, especially concerning step 1-4.
Do they receive normally?
No
Yes
Check the line and the network.
The hardware of the troubled fax machine may be damaged.
Go to 7.2.13 (High-speed Modem Test) to localize the cause.

Note: Even if the high-speed modem test results in success, 300 bps signal route remains unchecked. In that case, the most suspected unit is MCNT board.

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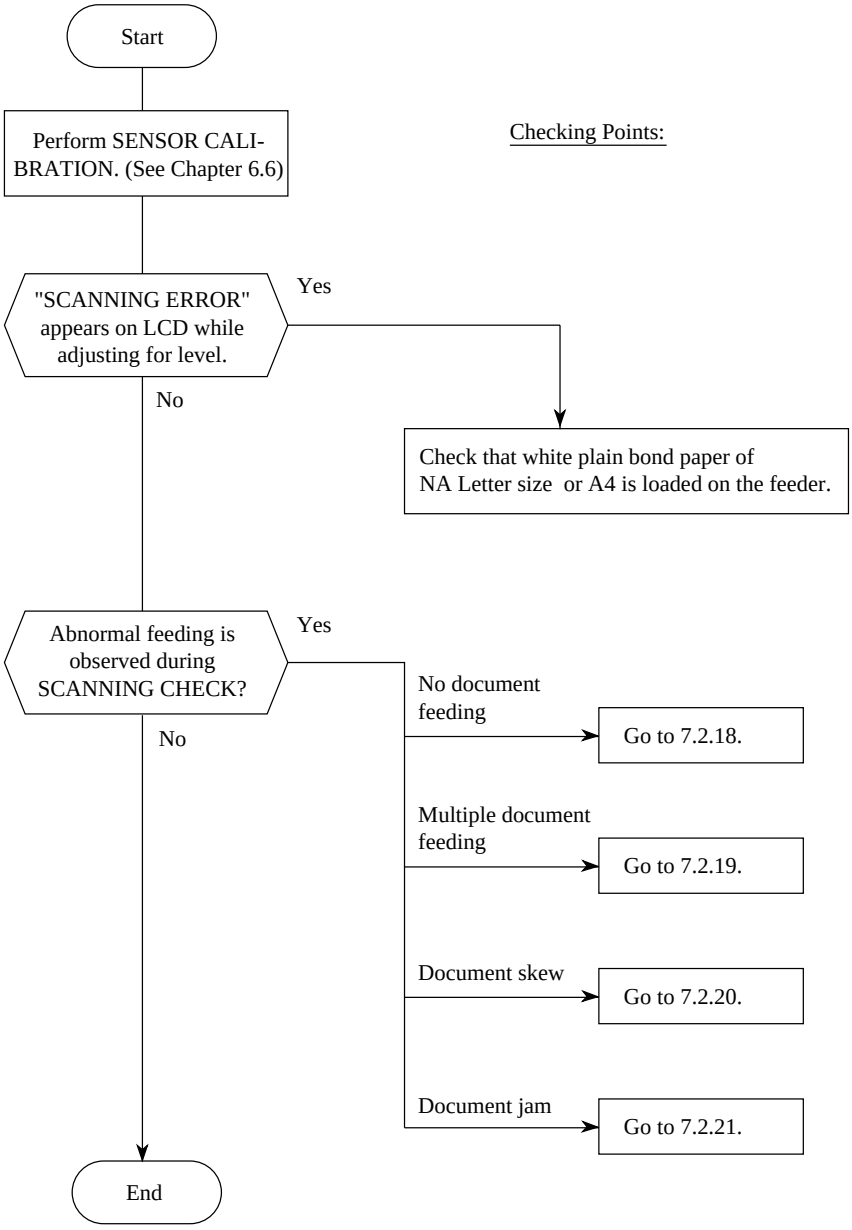
7.2.10 Sensor Calibration Test



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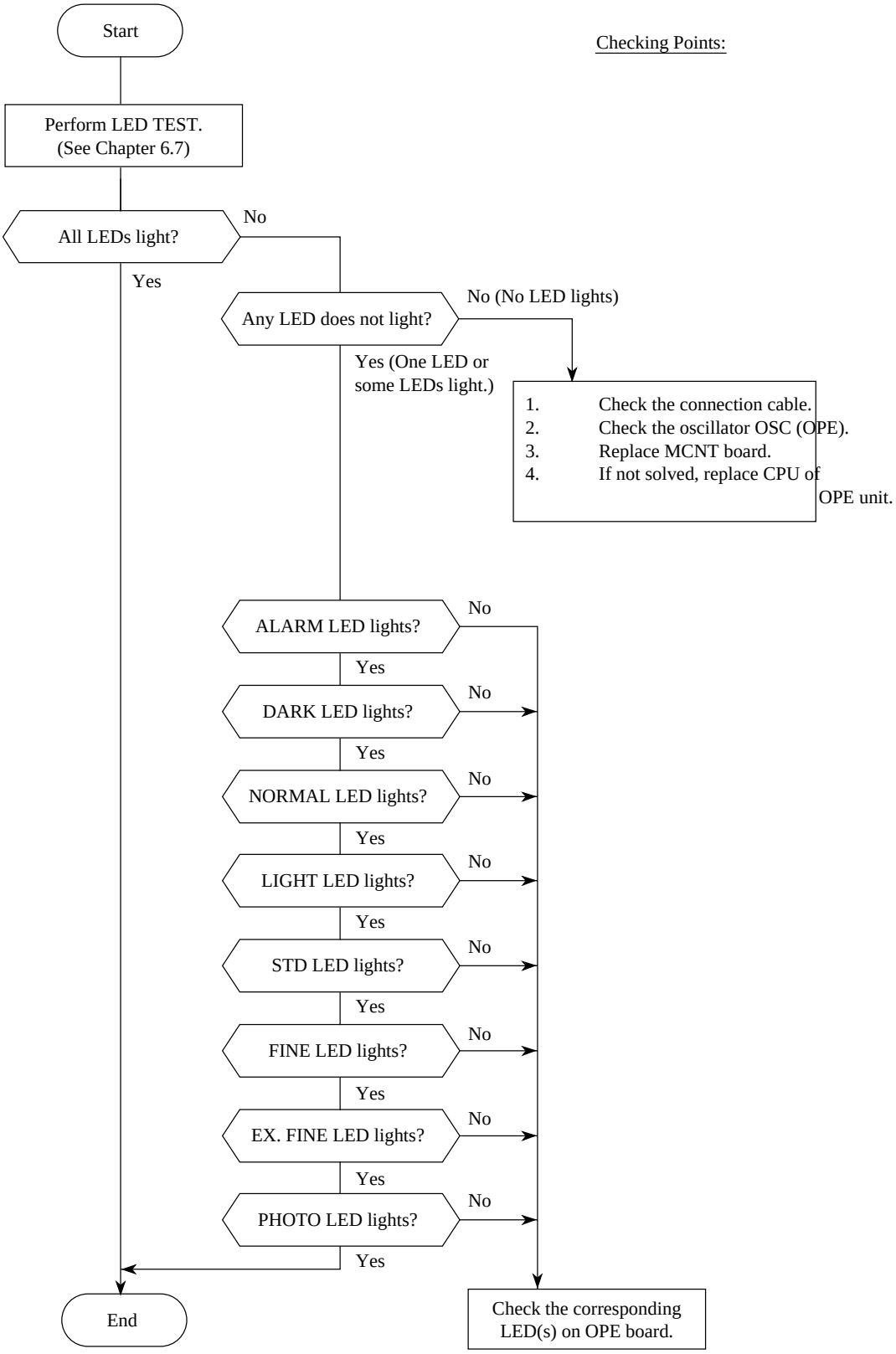
7.2.11 LED Test



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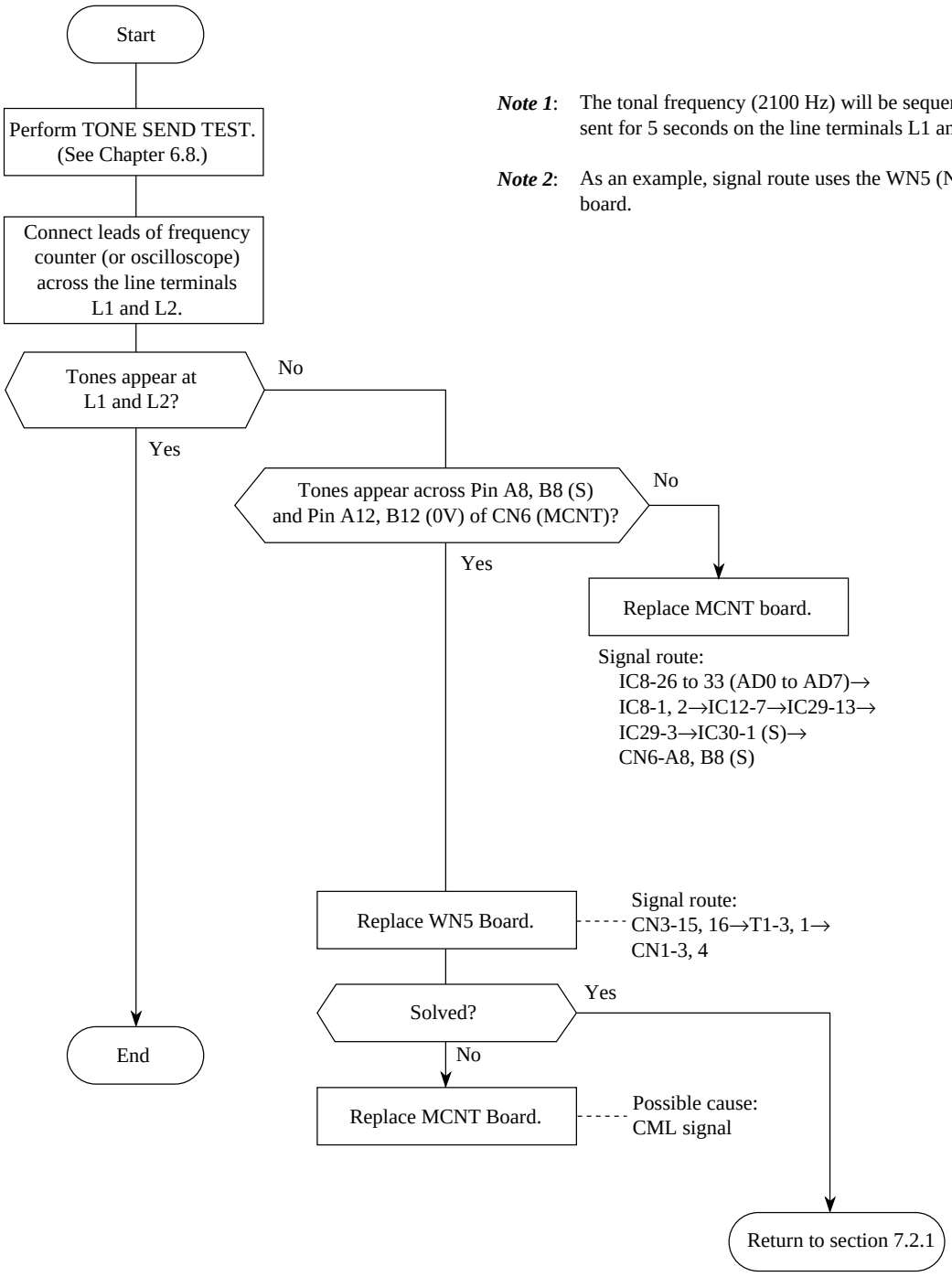
7.2.12 Tone Send Test



Note 1: The tonal frequency (2100 Hz) will be sequentially sent for 5 seconds on the line terminals L1 and L2.

Note 2: As an example, signal route uses the WN5 (NCU) board.

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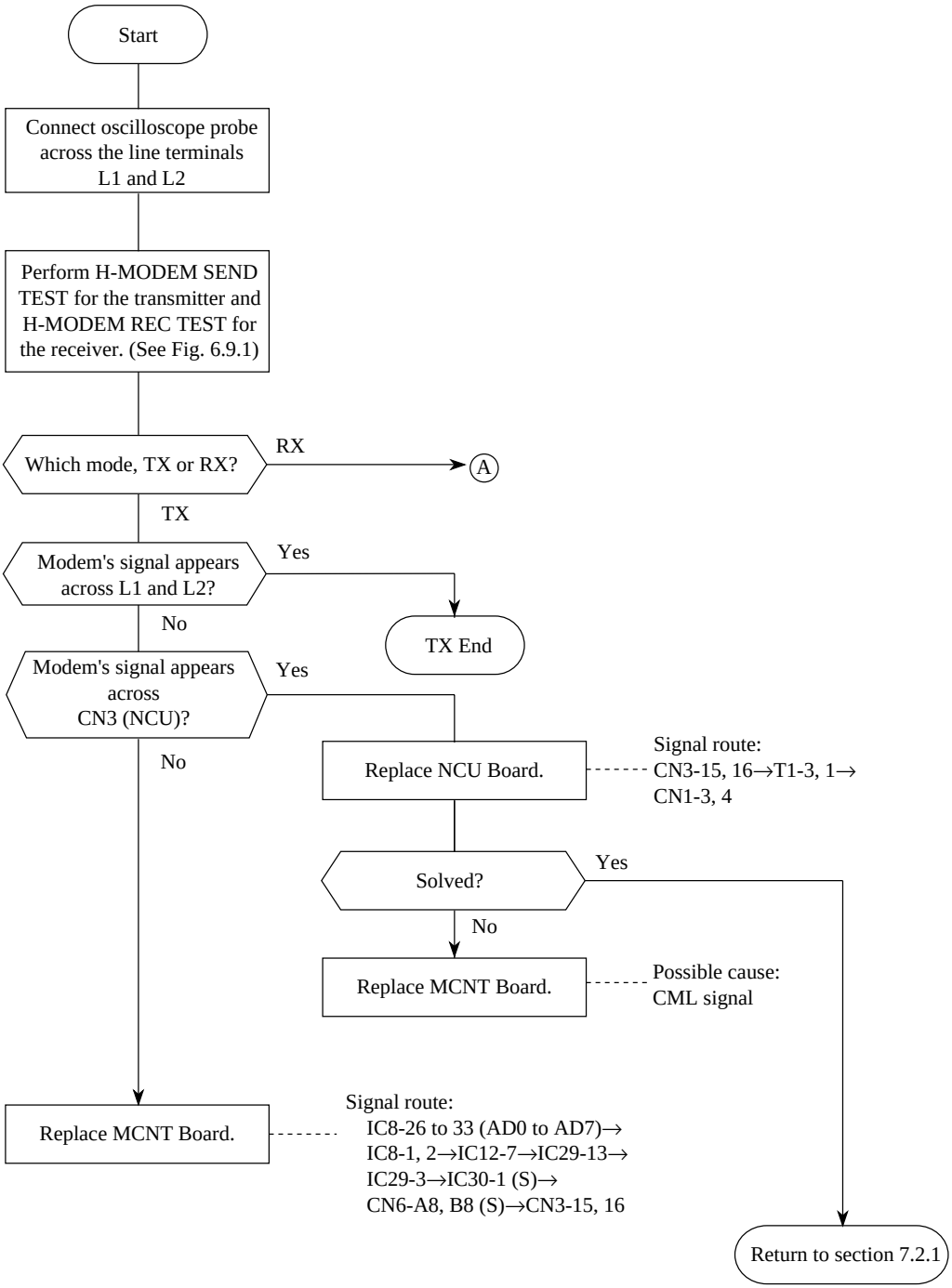
7.2.13 High-speed Modem Test



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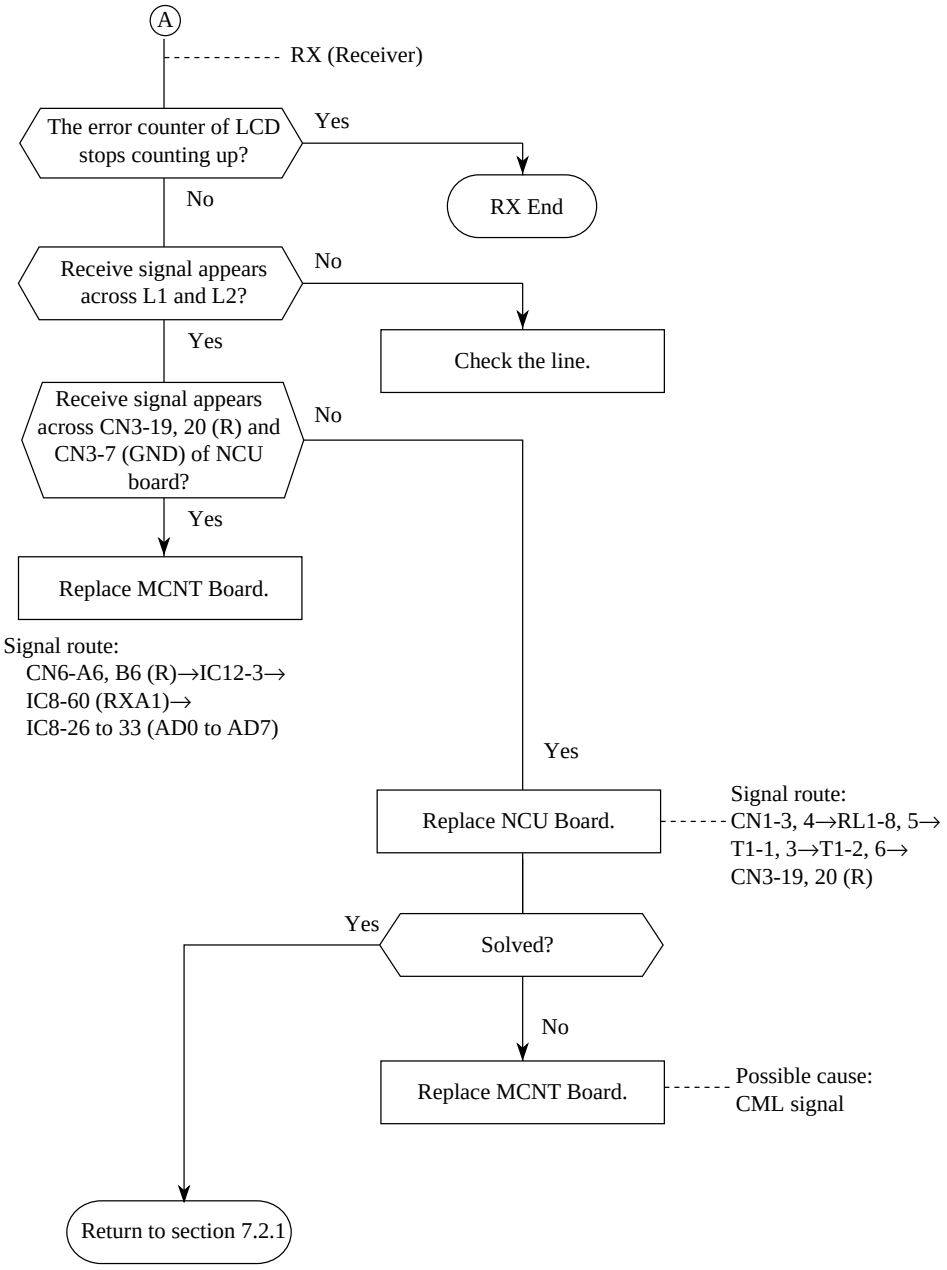

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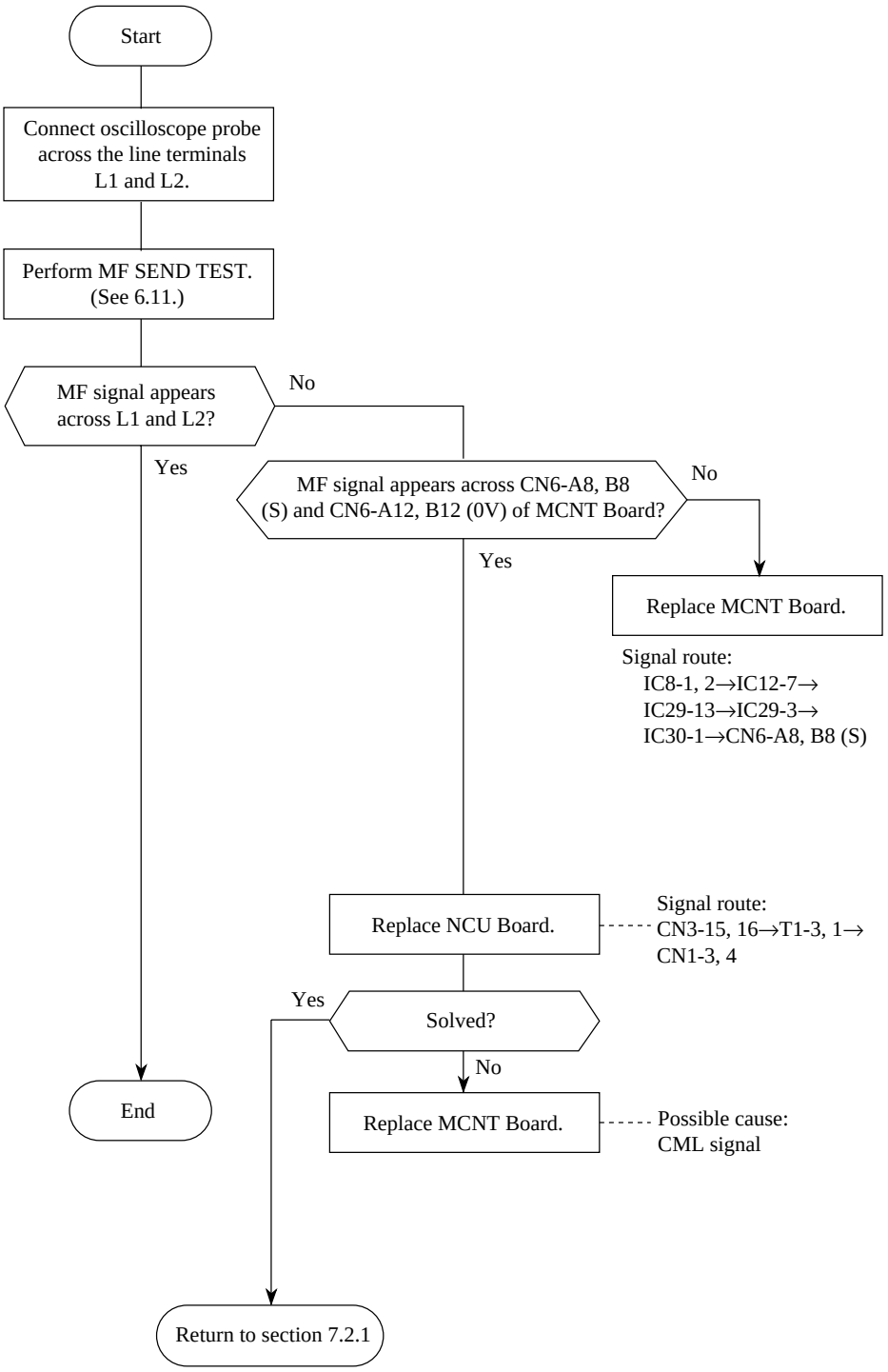
7.2.14 MF Send Test



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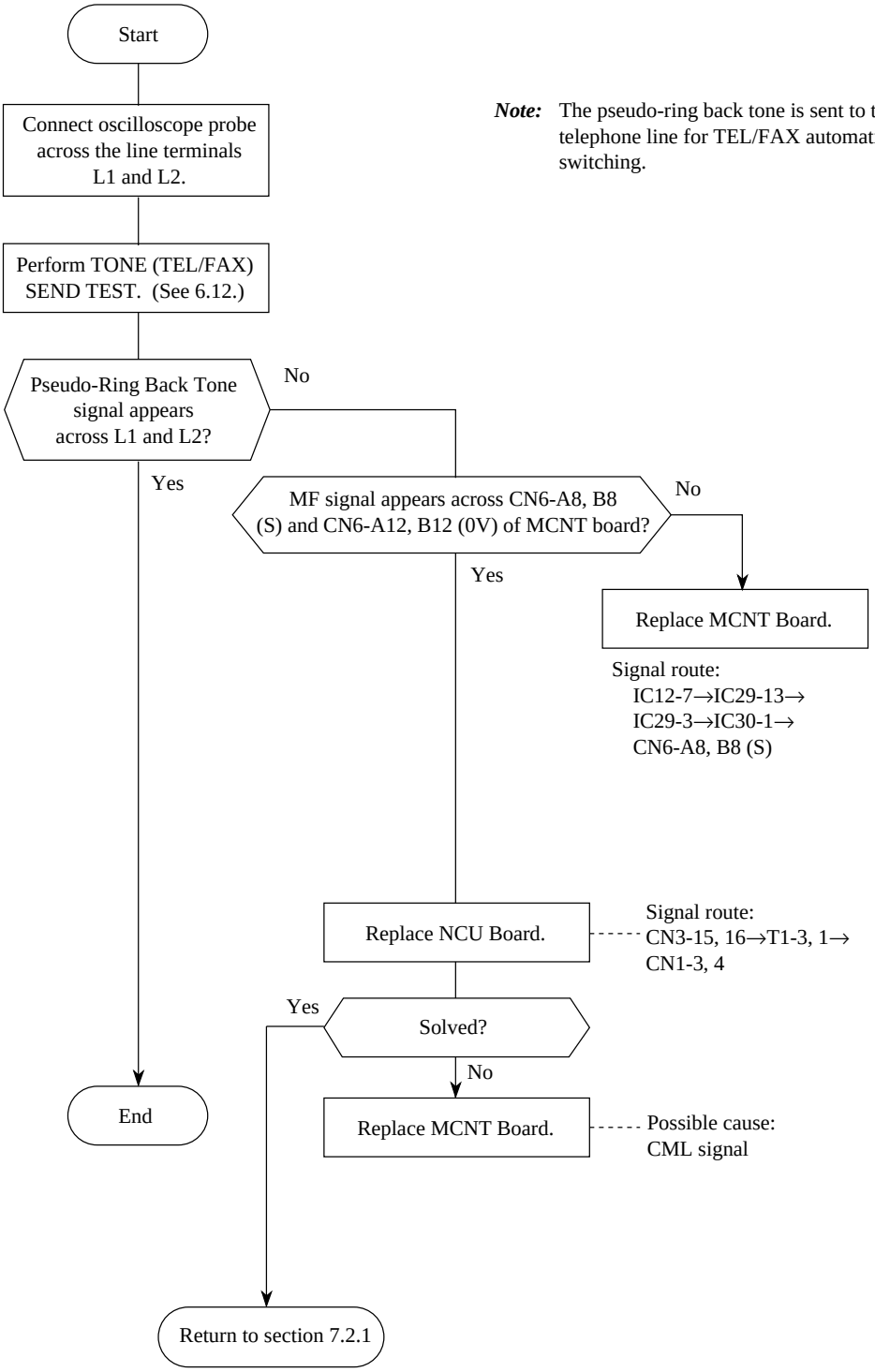
7.2.15 Tone (TEL/FAX) Send Test



Note: The pseudo-ring back tone is sent to the telephone line for TEL/FAX automatic switching.

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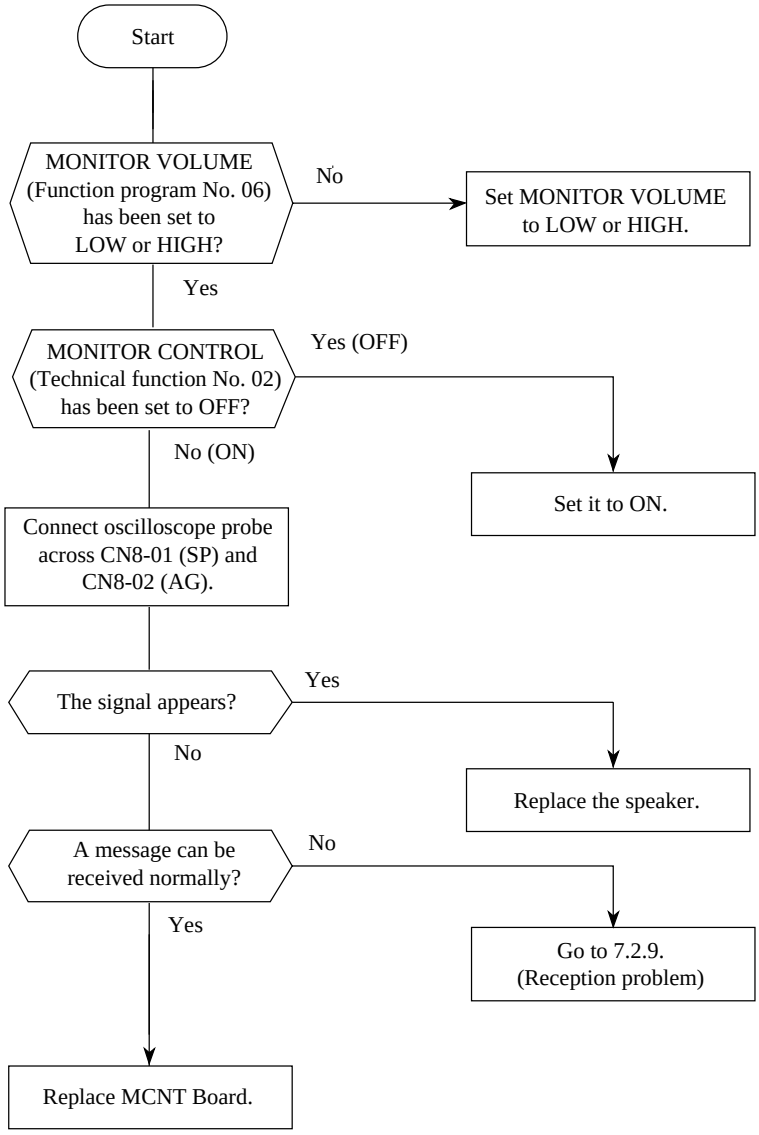
7.2.16 No Acoustic Line Monitor

There are two source routes of acoustic line monitor:

(a) General communication signal
(b) DP pulse signal



Signal route:
CN6-A6, B6 (R)→IC12-1 (RM)→
TR1-2→IC11-3→IC5-5

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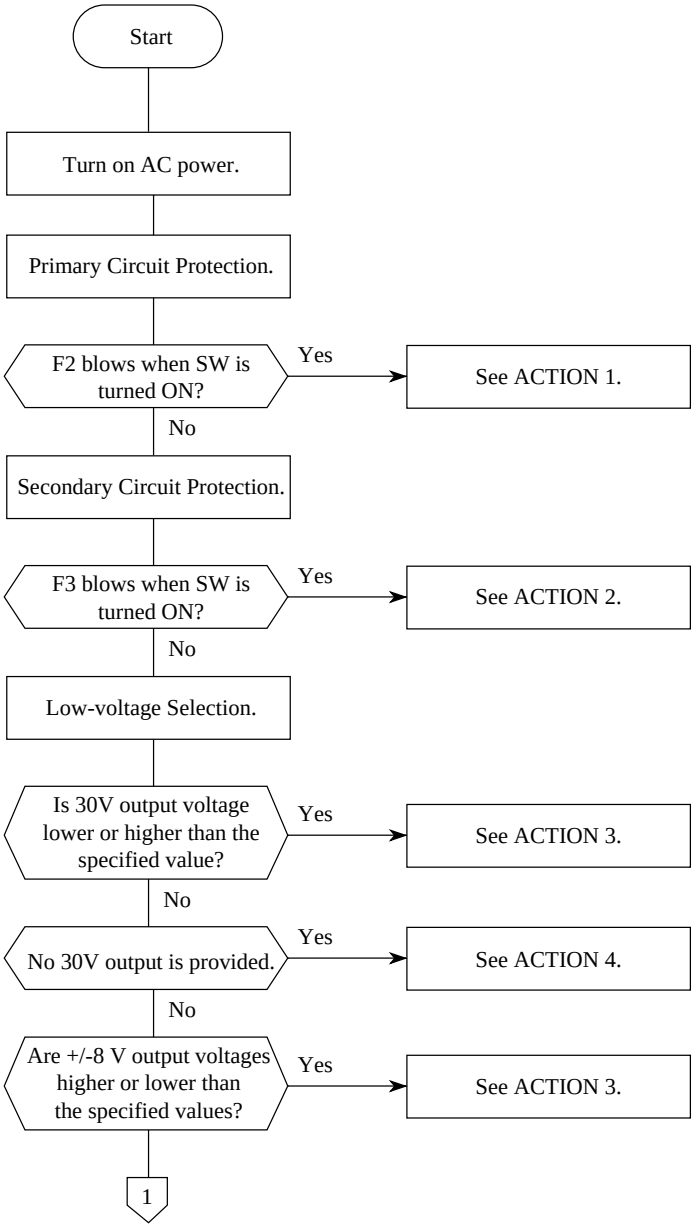
7.2.17 Power Supply Unit



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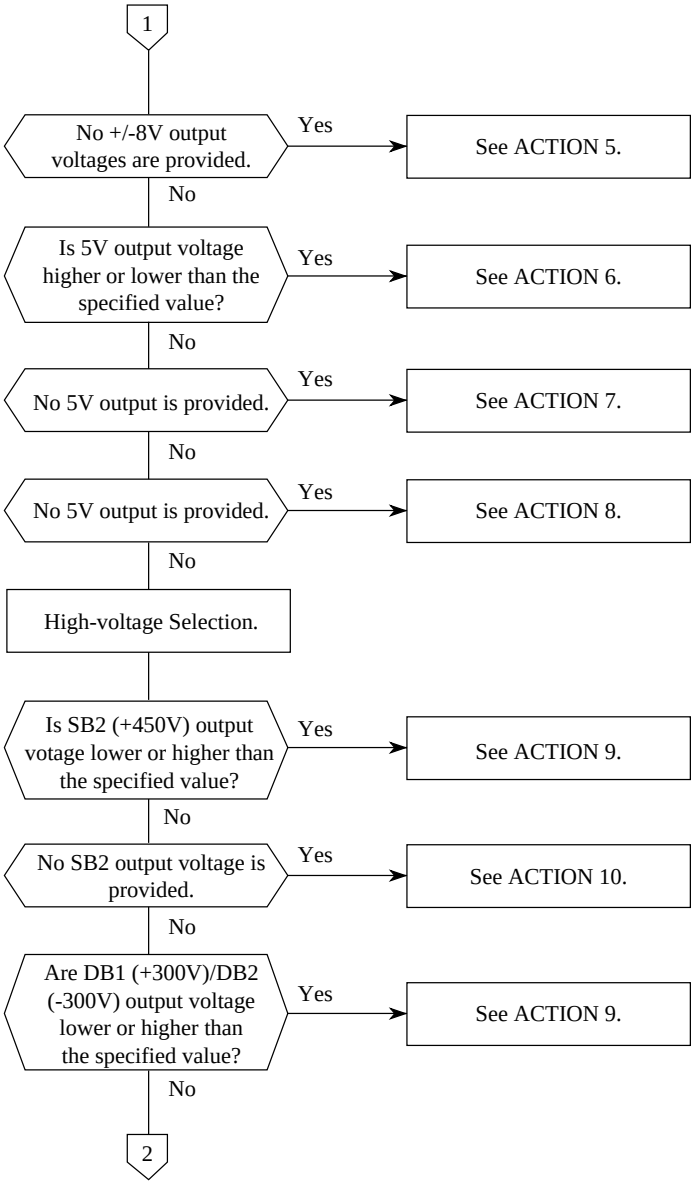

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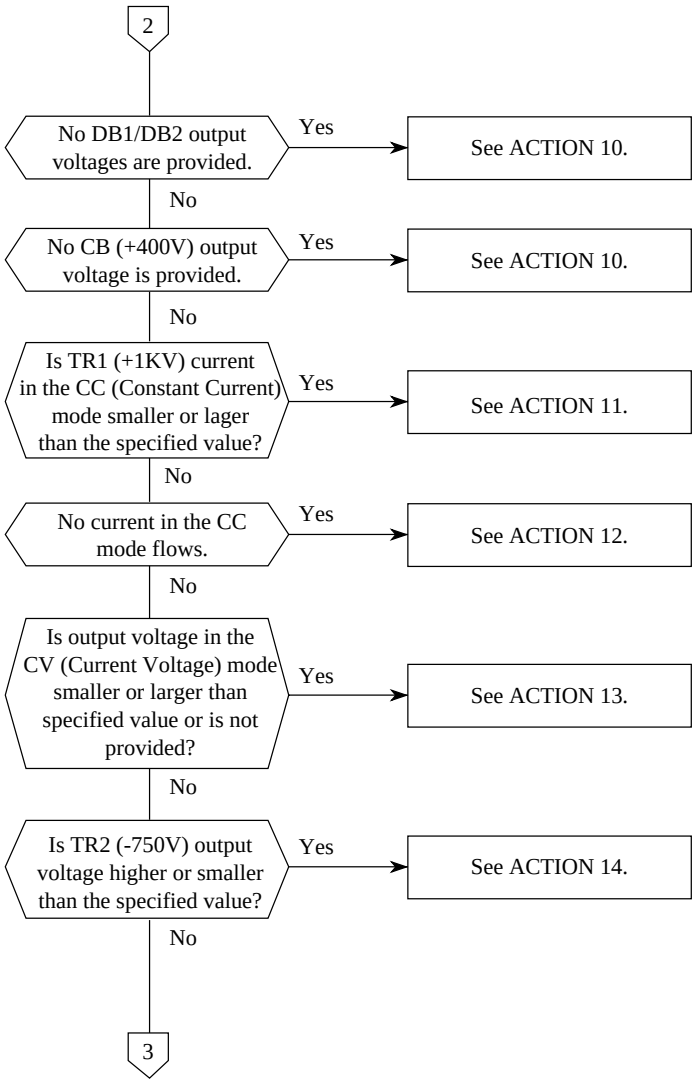

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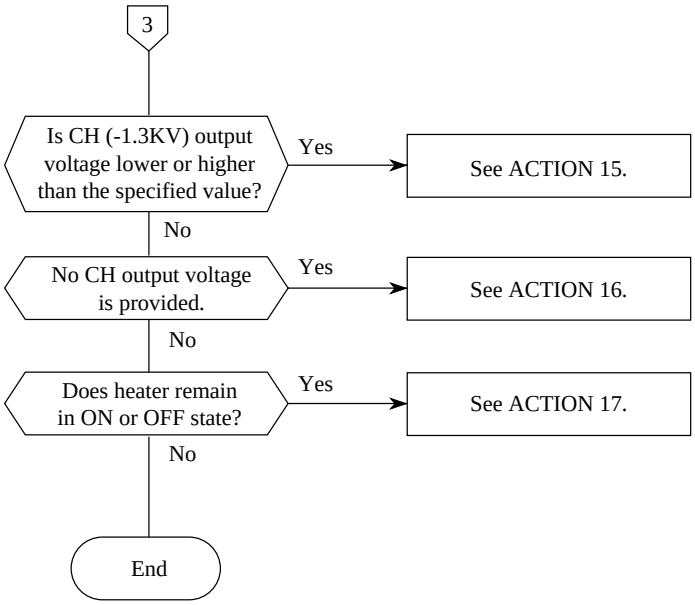

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ACTION Item:

No.	ACTION
1	Probable cause 1: A double AC voltage is applied (200V is applied to a 120V transformer). Check item 1: Check the input AC voltage. Probable cause 2: A short-circuit between lines after F2. Check item 2: Check the pattern on PCB and T1.
2	Probable cause 2: Short-circuit in 30V output circuit. Check item 1: Check DS1, C7, and R53. Probable cause 2: A short-circuit in 5V output circuit. Check item 2: Check Q1, D6, D7, C6, C10, C20, D6, D8, R4, R9, R83, R10, R11, and C35. If D8 and D6 operate and F3 blows when 5V overvoltage is detected, D8 and Q1 may be detective. Replace both D8 and Q1.
3	Probable cause 1: If the AC voltage is high (127V or more)/(250V or more), the output voltage becomes higher than the specified value. If the AC voltage is low (102V or less)/(198V or less), the output voltage becomes lower than the specified value. Check item 1: Check the AC voltage. Probable cause 2: If the load setting is large, the output voltage becomes lower than the specified value. Check item 2: Check the load resister. Probable cause 3: DS1 is defective (if the 30V output voltage is low). Check item 3: Check DS1 and R53.
4	Probable cause 1: F3 blows. → See ACTION 2. Probable cause 2: T1 is defective. Check item 2: Check secondary side pins 1 to 3 and primary side pins 1 and 2 of T1. Check item 3: Check DS1 for shorting and opening.
5	Probable cause 1: D10 and D11 are defective. Check item 1: Check the AC voltage. Probable cause 2: T1 is defective. Check item 2: Check pins 5 and 6 of T1 (thermal fuse may blow).
6	Probable cause 1: The reference resister is defective. Check item 1: Check R83, R10 and R11 (tolerance error: +/- 1%). Probable cause 2: IC1 is defective. Check item 2: Check IC1-1 pin (normal value: 2.45 to 2.69V).
7	Probable cause 1: F3 blows. → See ACTION 2.
8	Probable cause 1: C19 and C20 are defective. Check item 1: Check C10 and C20. Probable cause 2: L3 is defective. Check item 2: Check L3. Probable cause 3: C8 and C35 are defective. Check item 3: Check C8 and C35.

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ACTION Item:

No.	ACTION	
9	Probable cause 1: Check item 1: Probable cause 2: Check item 2: Probable cause 3: Check item 3:	D85 is defective. Replace D85. The load is larger than the normal value. Check if the load current is 2µA or less. D52 is defective. Check if D52 is iZ300 class Y or Z (class X is not acceptable).
10	Probable cause 1: Check item 1: Check item 2:	Q11 and Q12 are malfunctioning. Check the PWM waveform of DB output (cycle: 142 µs, ON time: 36µs). Check Q11 and Q12. Check the base voltage of Q21, Q22 and Q23 (3.7V or more to 3.9V or more).
11	Probable cause 1: Check item 1: Probable cause 2: Check item 2: Check item 3:	Current set resistor R115 is defective. Check R115 (tolerance error: +/-1%) The reference voltage is incorrect. Check if the voltage at CN3-B10 pin is 2.5V. Check the PWM waveform of TR1 (cycle: 142Ms, ON time: 36 µs).
12	Probable cause 1: Check item 1: Probable cause 2: Check item 2: Probable cause 3:	CC (Constant Current) mode is not set. Check if TR SEL2 is "H". T2 is defective. Replace T2. Check T2. Check (3) of ACTION 11.
13	Probable cause 1: Check item 1:	The voltage memory circuit is malfunctioning. Check if the average value of the VSEN voltage in the CC mode is equal to that in the CV (Current Voltage) mode. Check if the voltage across C230 remains unchanged in the CV mode (for 15 seconds or more).
14	Probable cause 1: Check item 1: Check item 2: Check item 3:	D65 or D66 is defective. Check if these diodes are 1ZB390. Check the PWM waveform of TR2 output (cycle: 146µs, ON time: 36µs). Check if TR1 is "L" or TR2 is "H" (if TR1 is "H", TR1 output appears).
15	Probable cause 1: Check item 1: Probable cause 2: Check item 2:	The class of D76 or D82 is incorrect. Check if both D76 and D82 are of EB-2 class. The load current is lower than the specified value. The load current shall be 6 to 8µA. (Namely, the load current shall not be more than or less than this limit range.)

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ACTION Item:

No.	ACTION	
16	Check item 1:	Check the PWM waveform of CH (cycle: 42µs, ON time: 36µs).
17	Probable cause 1:	D1 is detective.
	Check item 1:	Check if both D1 and T1 or D1 and T2 are shorted.
	Probable cause 2:	The D1 drive circuit is defective.
	Check item 2:	Check PC1. [Whether PC1 turns ON or OFF according to the level of HEAT signal (CN3-B7)?] Check if R2 or R3 is in open state (This cannot be observed from the external appearance because these resistors are fusible resistor.)

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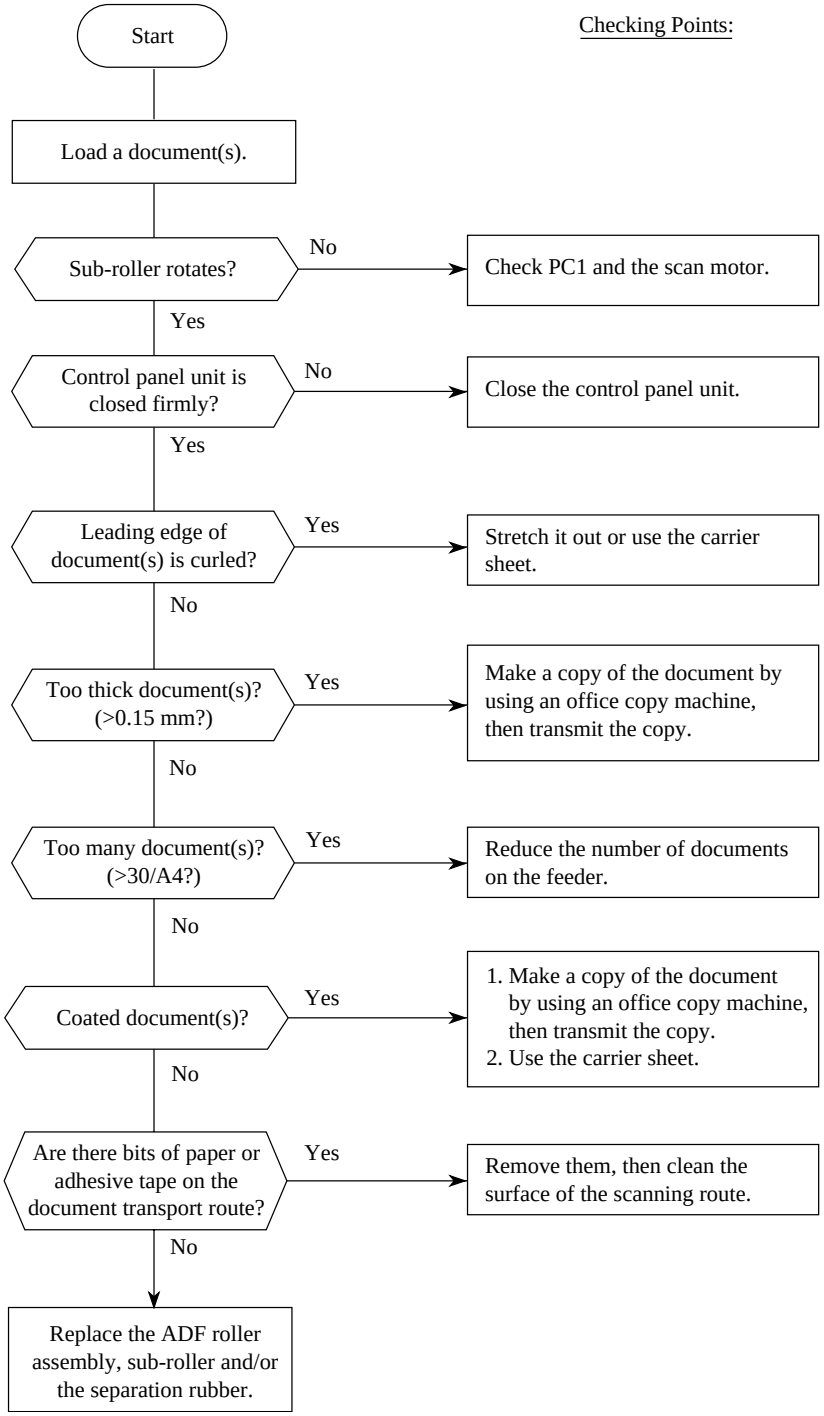
7.2.18 No Document Feeding

Note: This section places an emphasis on troubleshooting of mechanical portions. Therefore, it is recommended to replace the MCNT Board first and, then if not solved, follow this flow chart.


Start
Checking Points:
Load a document(s).
Sub-roller rotates?
No
Check PC1 and the scan motor.
Yes
Control panel unit is closed firmly?
No
Close the control panel unit.
Yes
Leading edge of document(s) is curled?
Yes
Stretch it out or use the carrier sheet.
No
Too thick document(s)? (>0.15 mm?)
Yes
Make a copy of the document by using an office copy machine, then transmit the copy.
No
Too many document(s)? (>30/A4?)
Yes
Reduce the number of documents on the feeder.
No
Coated document(s)?
Yes
1. Make a copy of the document by using an office copy machine, then transmit the copy.
2. Use the carrier sheet.
No
Are there bits of paper or adhesive tape on the document transport route?
Yes
Remove them, then clean the surface of the scanning route.
No
Replace the ADF roller assembly, sub-roller and/or the separation rubber.

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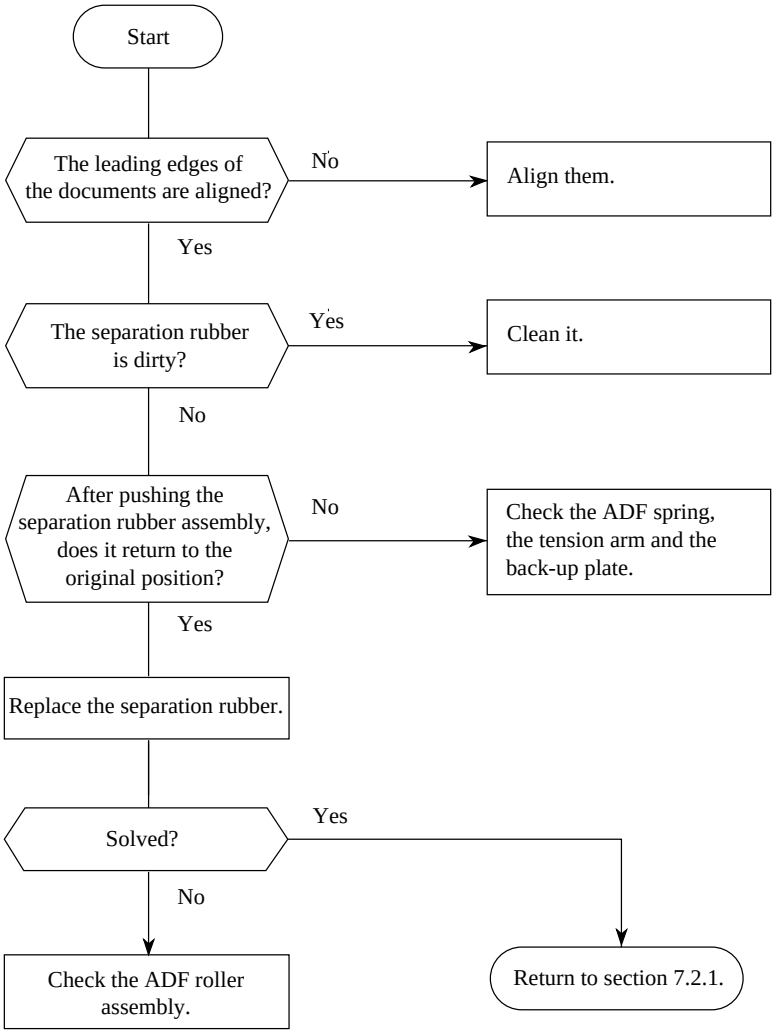
7.2.19 Multiple Document Feeding

Definition: Multiple document feeding.
Multiple documents are not separated and they are fed in the same one feeding operation.



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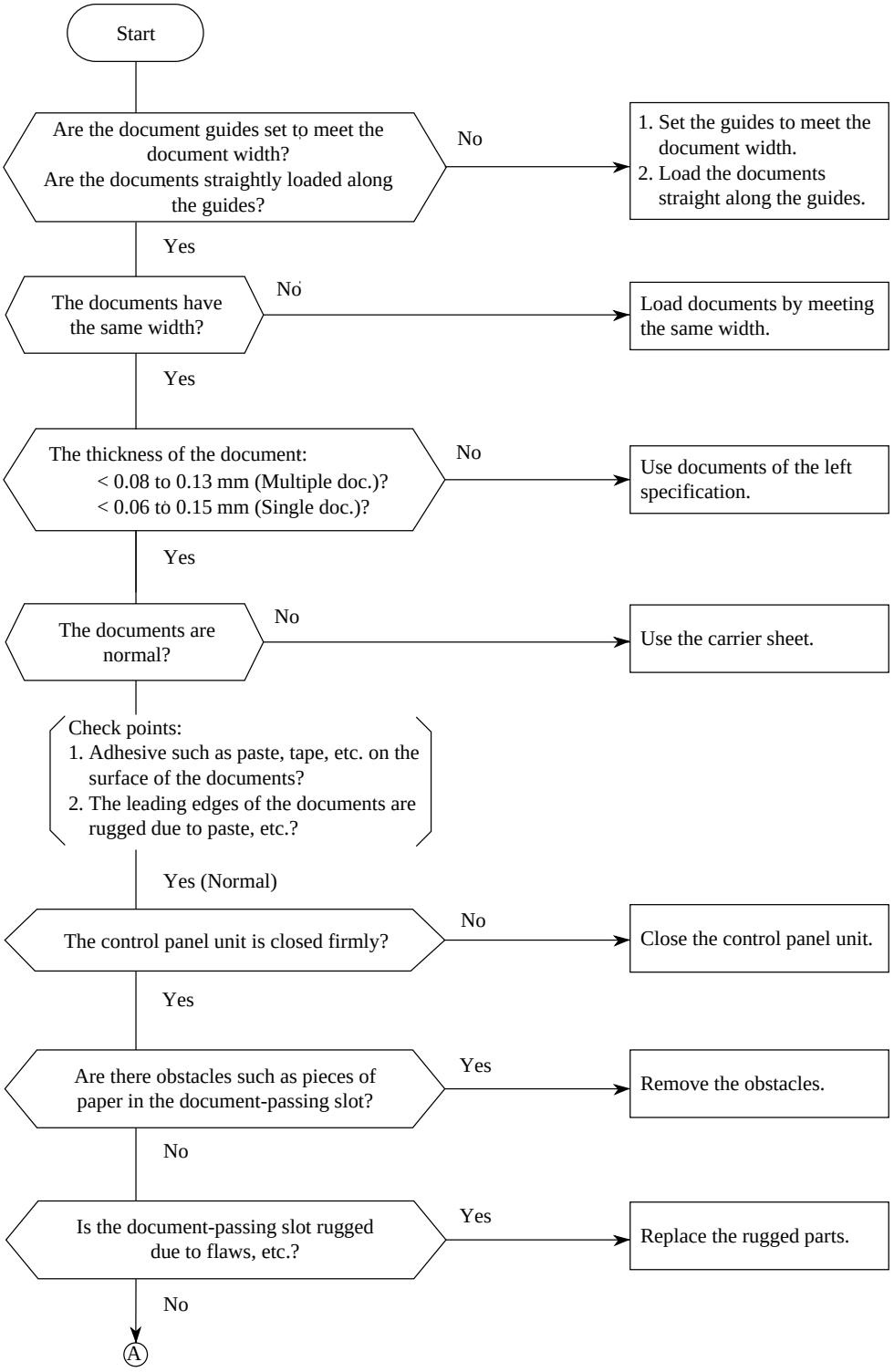
7.2.20 Document Skew


Start
Are the document guides set to meet the document width?
Are the documents straightly loaded along the guides?
No
1. Set the guides to meet the document width.
2. Load the documents straight along the guides.
Yes
The documents have the same width?
No
Load documents by meeting the same width.
Yes
The thickness of the document:
< 0.08 to 0.13 mm (Multiple doc.)?
< 0.06 to 0.15 mm (Single doc.)?
No
Use documents of the left specification.
Yes
The documents are normal?
No
Use the carrier sheet.
Check points:
1. Adhesive such as paste, tape, etc. on the surface of the documents?
2. The leading edges of the documents are rugged due to paste, etc.?
Yes (Normal)
The control panel unit is closed firmly?
No
Close the control panel unit.
Yes
Are there obstacles such as pieces of paper in the document-passing slot?
Yes
Remove the obstacles.
No
Is the document-passing slot rugged due to flaws, etc.?
Yes
Replace the rugged parts.
No
A

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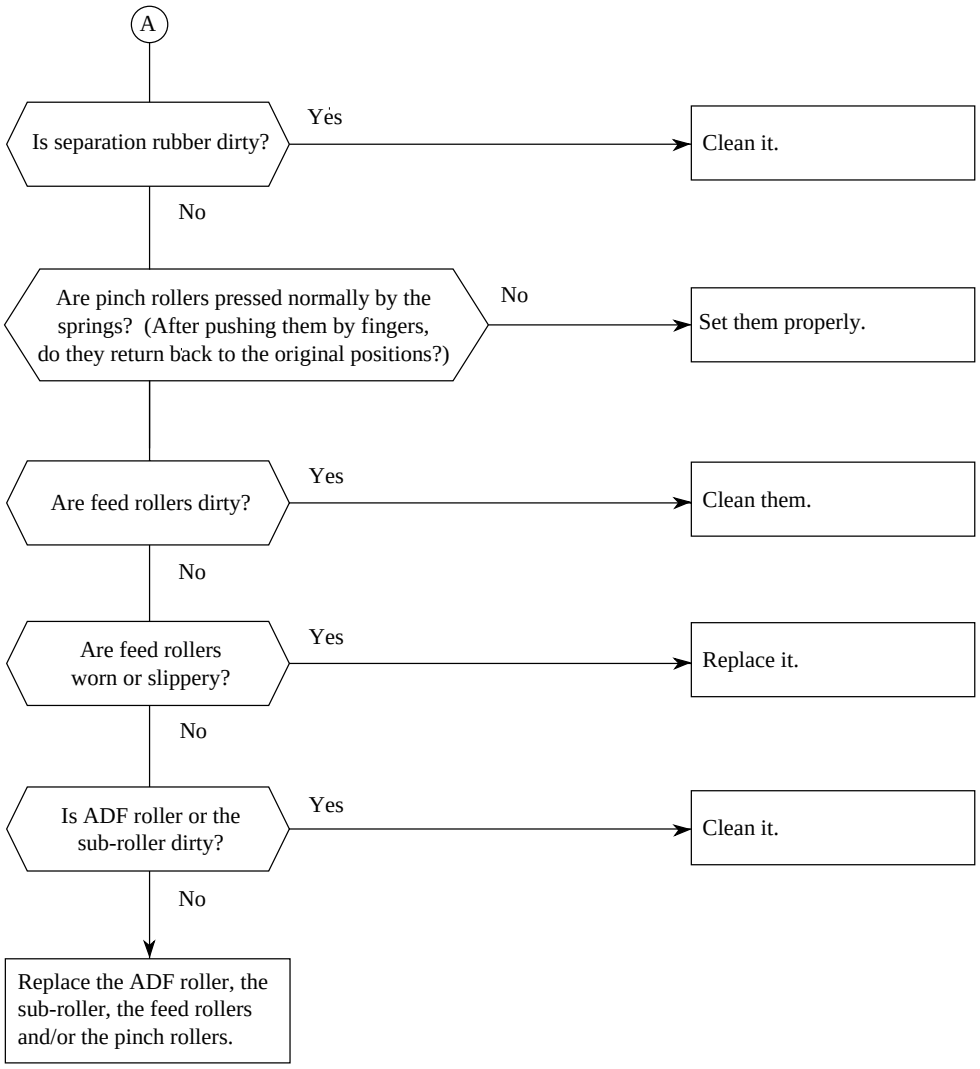

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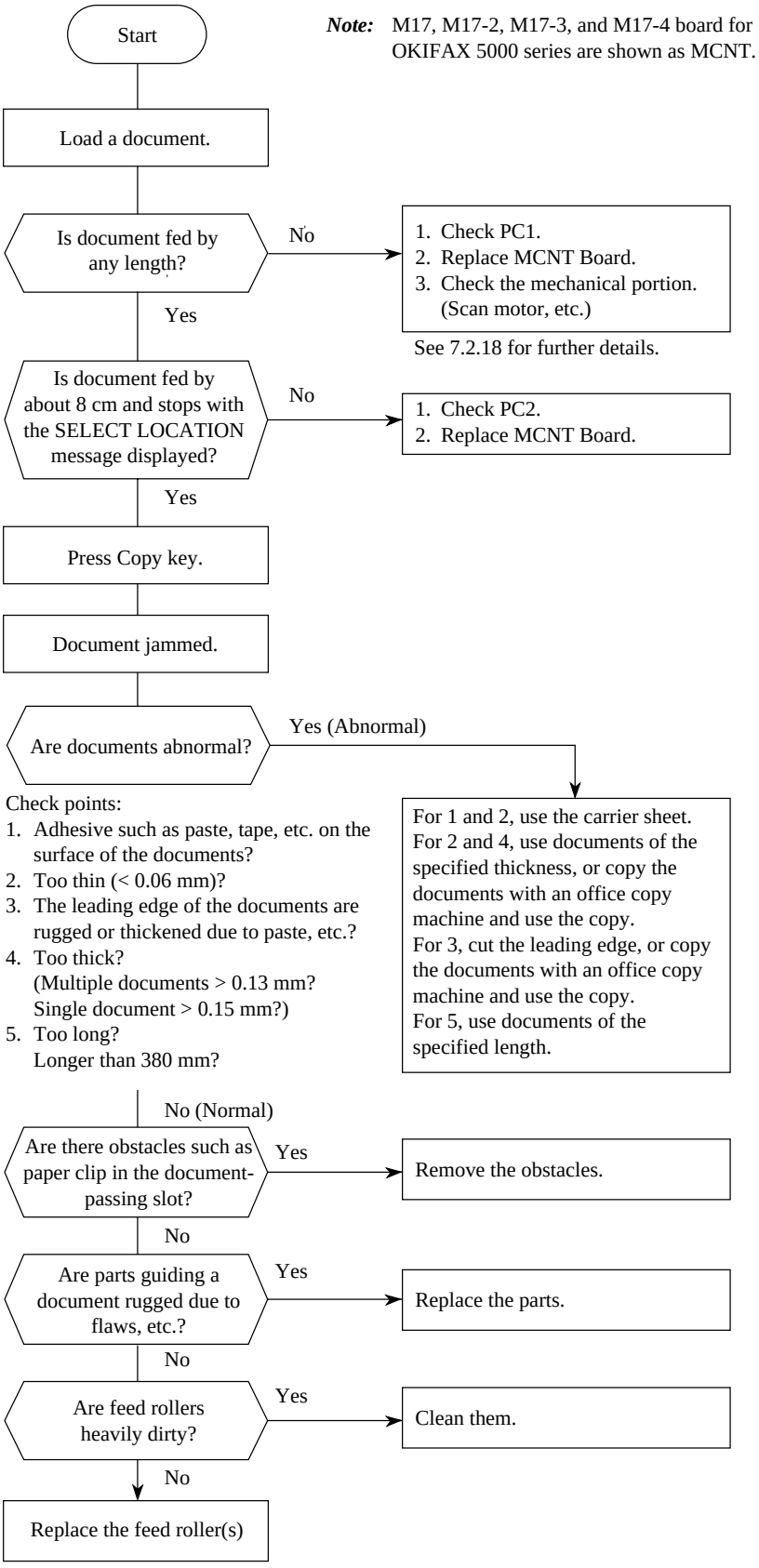
7.2.21 Document Jam



Note: M17, M17-2, M17-3, and M17-4 board for OKIFAX 5000 series are shown as MCNT.

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7.2.22 Printer Unit

7.2.22.1 Precautions

1. Points to check before correcting image troubles
   (1) Is the printer being run in proper ambient conditions?
   (2) Have the supplies (toner) and the routine replacement part (ID unit) been replaced properly?
   (3) Is the recording paper normal?
   (4) Has the ID unit been loaded properly?

2. Tips for correcting image troubles
   (1) Do not touch, or bring foreign matter into contact with the surface of the drum.
   (2) Do not expose the drum to direct sunlight.
   (3) Keep hands off the fuser unit as it is heated during operation.
   (4) Do not expose the drum to light for longer than 5 minutes at room temperature.

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7.2.22.2 Troubleshooting Flow Charts of Printer Unit

Overall troubleshooting flow chart:

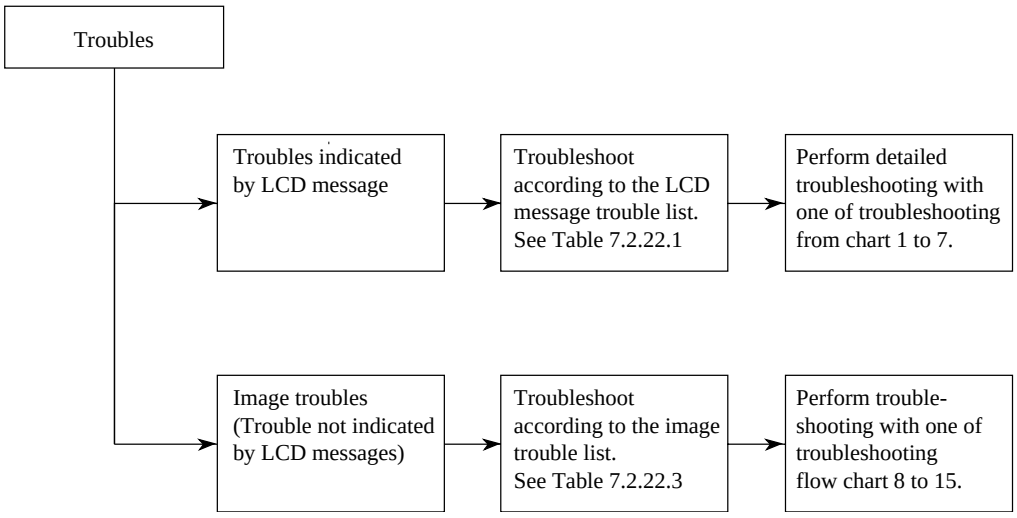
Troubles
Troubles indicated by LCD message
Troubleshoot according to the LCD message trouble list. See Table 7.2.22.1
Perform detailed troubleshooting with one of troubleshooting from chart 1 to 7.
Image troubles (Trouble not indicated by LCD messages)
Troubleshoot according to the image trouble list. See Table 7.2.22.3
Perform trouble-shooting with one of troubleshooting flow chart 8 to 15.

Table 7.2.22.1 LCD Message Trouble List

Category	LCD message display	Trouble	Troubleshooting flow chart number
Cover open	14:14 [FAX] COVER OPEN	The cover (copy stacker) is open.	1
Image drum alarm	14:14 [FAX] CHANGE DRUM	Warning message to replace ID unit because of its life.	2
Engine errors	PRINTER ALARM 2[TEL] PLEASE CONFIRM	Engine controller error (Option: 2nd tray)	3
	PRINTER ALARM 3[TEL] PLEASE CONFIRM	Fan motor rotation error	4
	PRINTER ALARM 4[TEL] PLEASE CONFIRM	Fuser unit thermal error	5
Recording paper/ jam error	PAPER JAM [FAX] CONFIRM AND "STOP"	Recording paper feed jam, transport jam, ejection jam, recording size error	6
Paper cassette request	NO PAPER [FAX] REPLACE PAPER	No recording paper cassette or no recording paper	7
Daily status	TONER LOW [FAX] REPLACE TONER CART.	Toner is running short. Note: No toner memory RX is ON.	
	14:14 [FAX] REPLACE TONER CART.	Toner is running short. Note: No toner memory RX is OFF.	

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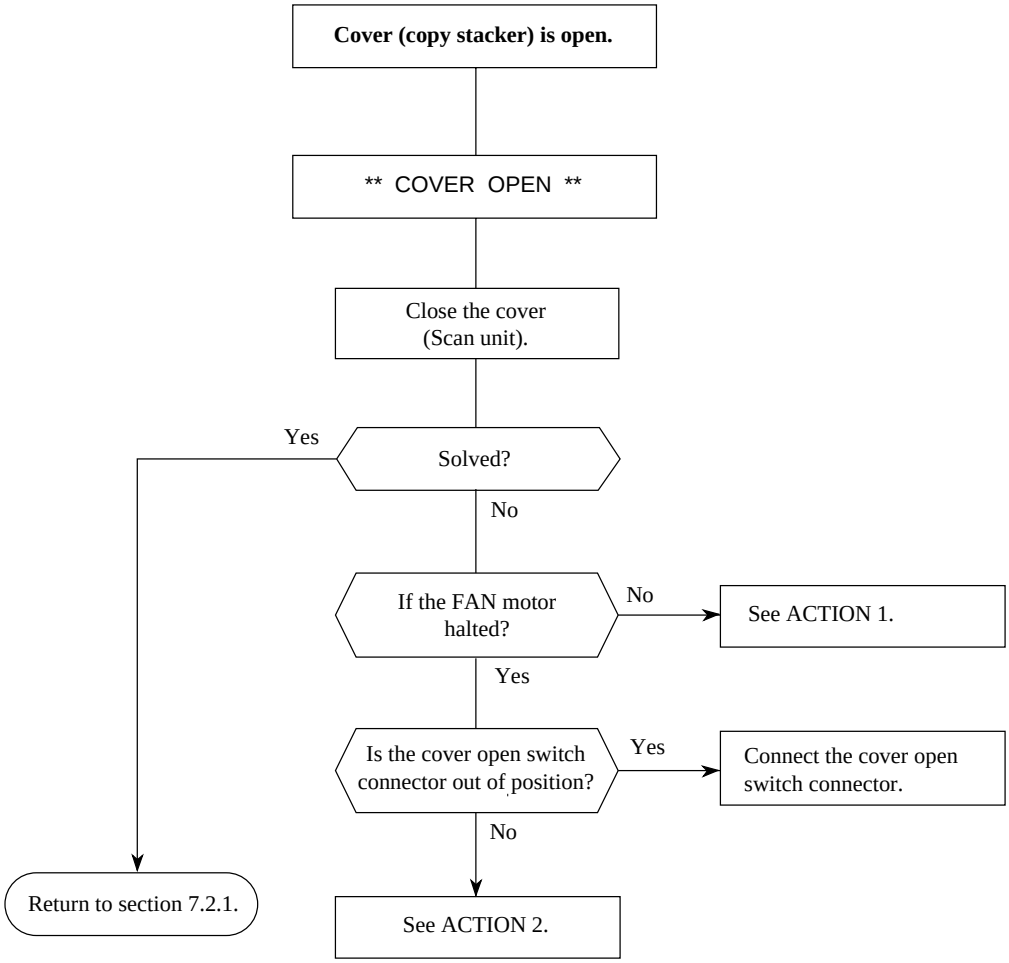
Troubleshooting flow chart 1:



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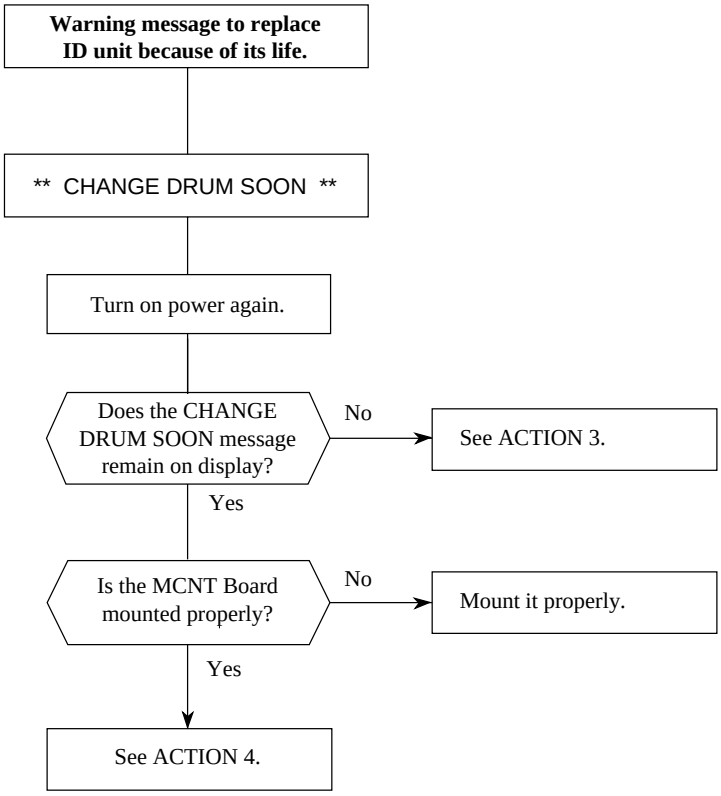
Troubleshooting flow chart 2:



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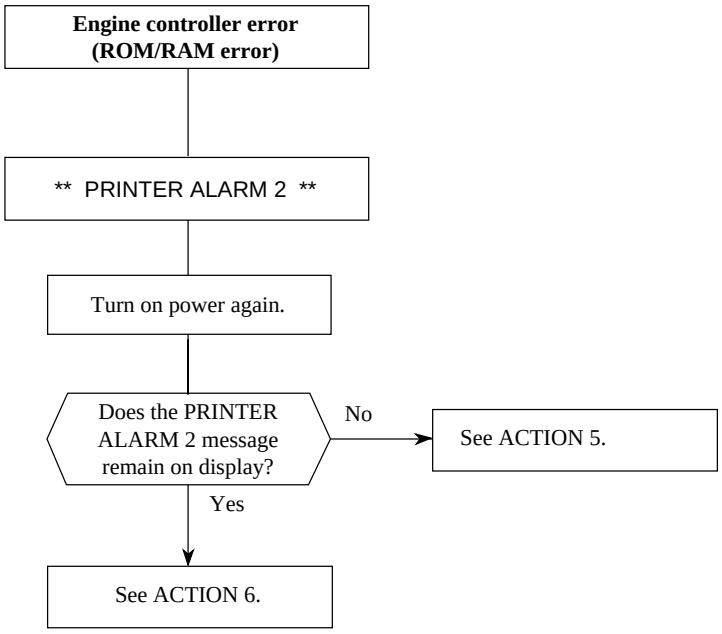
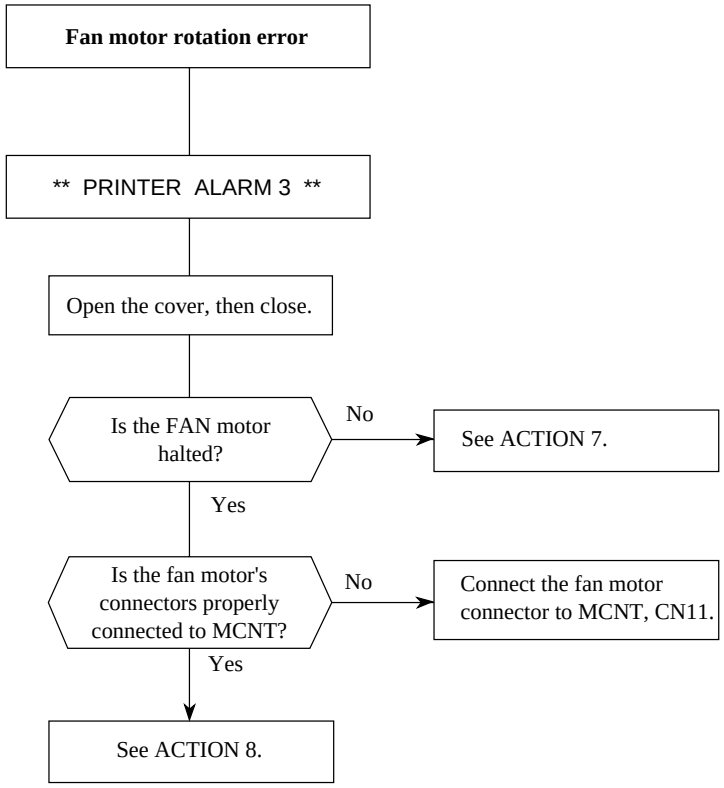
Troubleshooting flow chart 3:



Troubleshooting flow chart 4:



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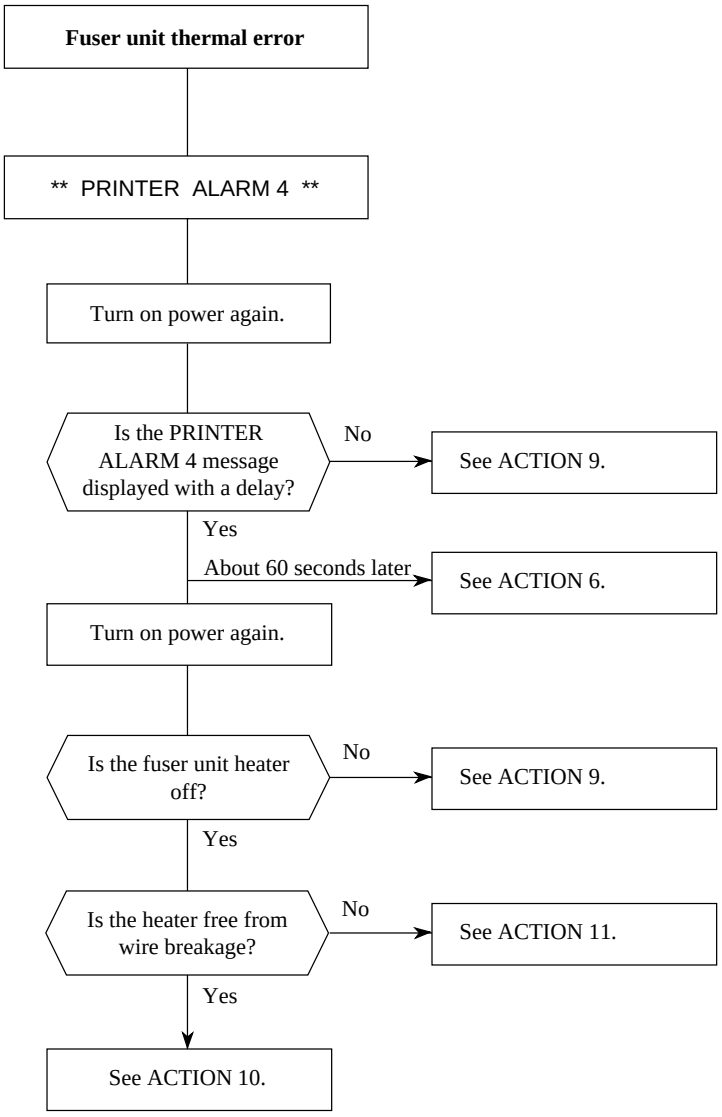
Troubleshooting flow chart 5:



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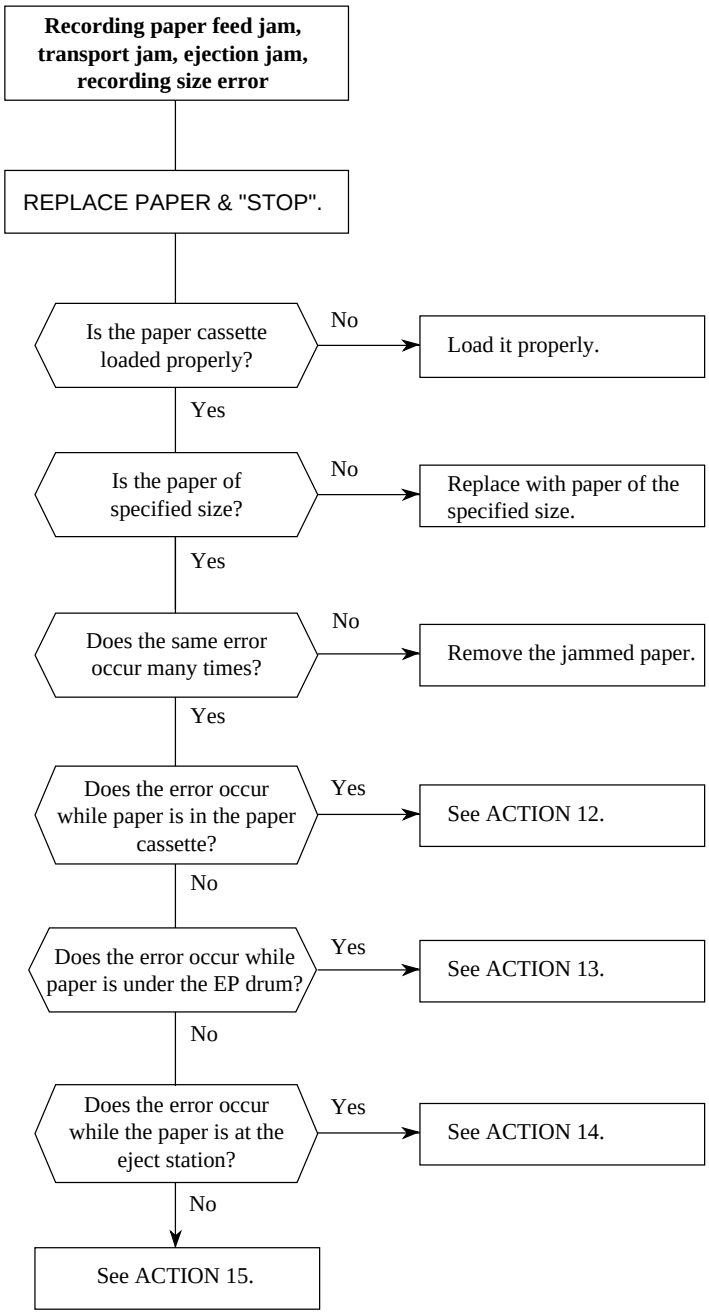
Troubleshooting flow chart 6:



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Troubleshooting flow chart 7:

No recording paper cassette or not recording paper

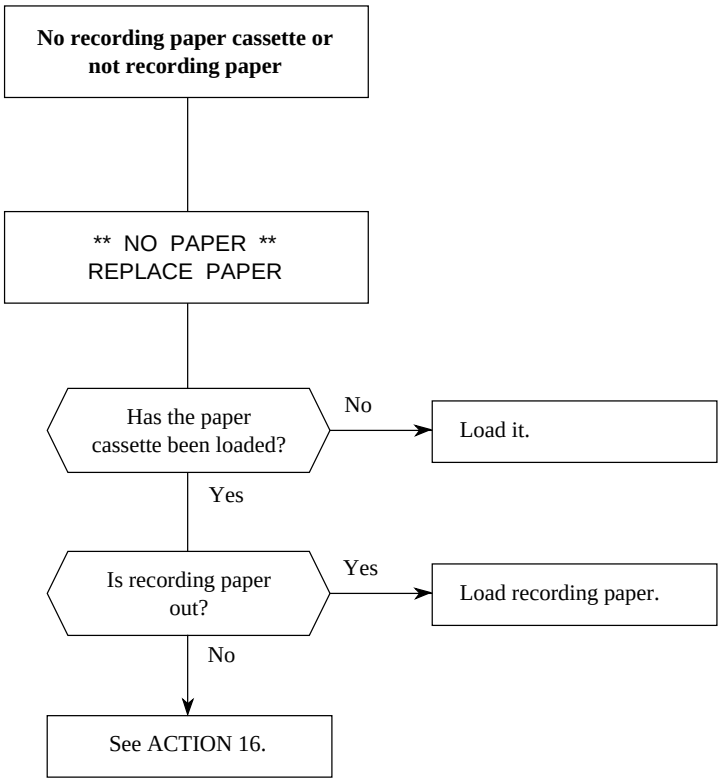

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Table 7.2.22.2 Action Items (Printer Unit-LCD Message)

No.	ACTION	No.	ACTION
1	Check MCNT Board.	10	Check connection between the PWU and the fuser assembly, heater, thermostat.
2	Check POWER SUPPLY UNIT. cover open switch, cover open switch connection. Check MCNT Board.	11	Check PWU.
3	Return to Section 7.2.	12	Check inlet sensor lever, hopping roller, resist motor, MCNT Board, cover setting state.
4	Replace the ID Unit. And clear Drum Count, Selection 6.3.	13	Check cover setting state, drum motor, drum motor gear, MCNT Board.
5	Check installation of MCNT board, POWER SUPPLY UNIT board.	14	Check exit sensor lever, cover setting state, PWU
6	Check MCNT Board.	15	Check MCNT Board,.
7	Check FAN motor, MCNT Board.	16	Check paper sensor lever, PWU, MCNT board.
8	Check FAN motor, MCNT Board, POWER SUPPLY UNIT.		
9	Check thermister (resistance of about 100 kilo ohms at room temperature and about 1.5 kilo ohms at high temperature), POWER SUPPLY UNIT.		

Note: M17, M17-2, M17-3, and M17-4 board for OKIFAX 5000 series are shown as MCNT.

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Table 7.2.22.3 Image Troubles

Abnormal Symptom	Reference Figure	Troubleshooting Flow Chart No.
Images are light or blurred as a whole.	Fig. Ⓐ	8
The blank background is smeared.	Fig. Ⓑ	9
Blank paper is output.	Fig. Ⓒ	10
Black belts or black stripes in vertical direction.	Fig. Ⓓ	11
Periodic abnormal printing.	Fig. Ⓔ	12
Some parts not printed.	—	13
White belts or some white stripes in vertical direction	Fig. Ⓕ	14
Poor fusing (Images are blurred or peeled off when touched by hands)	—	15

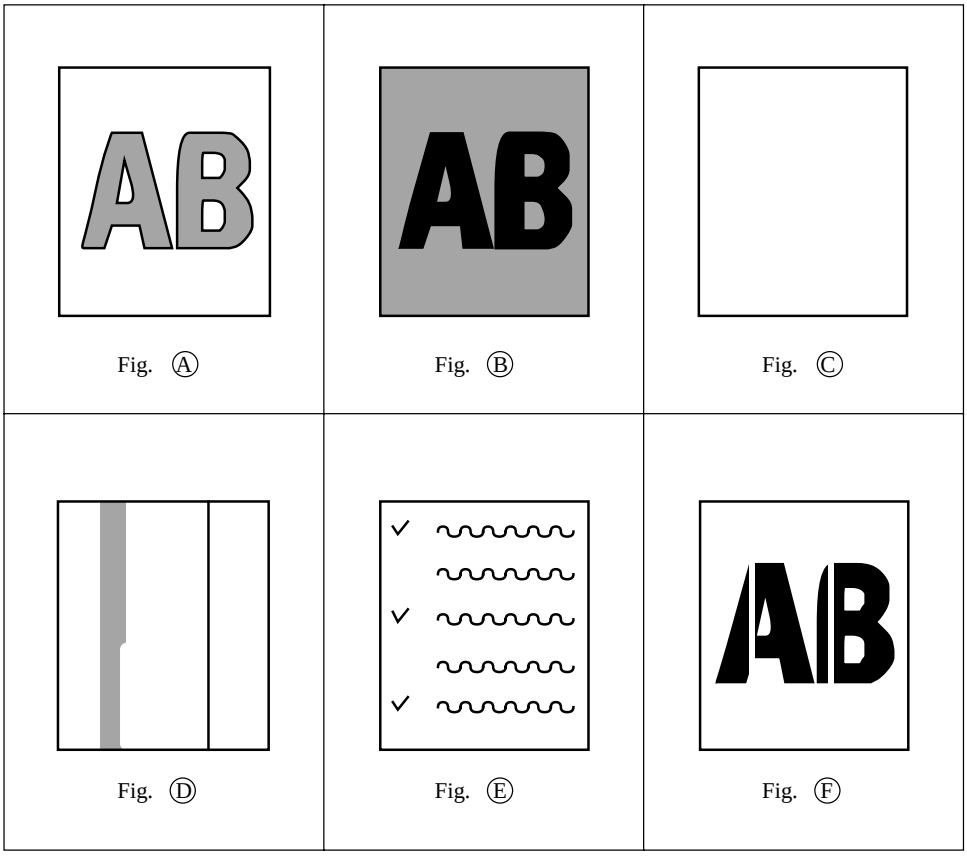

Fig. Ⓐ Fig. Ⓑ Fig. Ⓒ

Fig. Ⓓ Fig. Ⓔ Fig. Ⓕ

Figure 7.2.22.1 Abnormal Symptoms of Image Troubles (Example)

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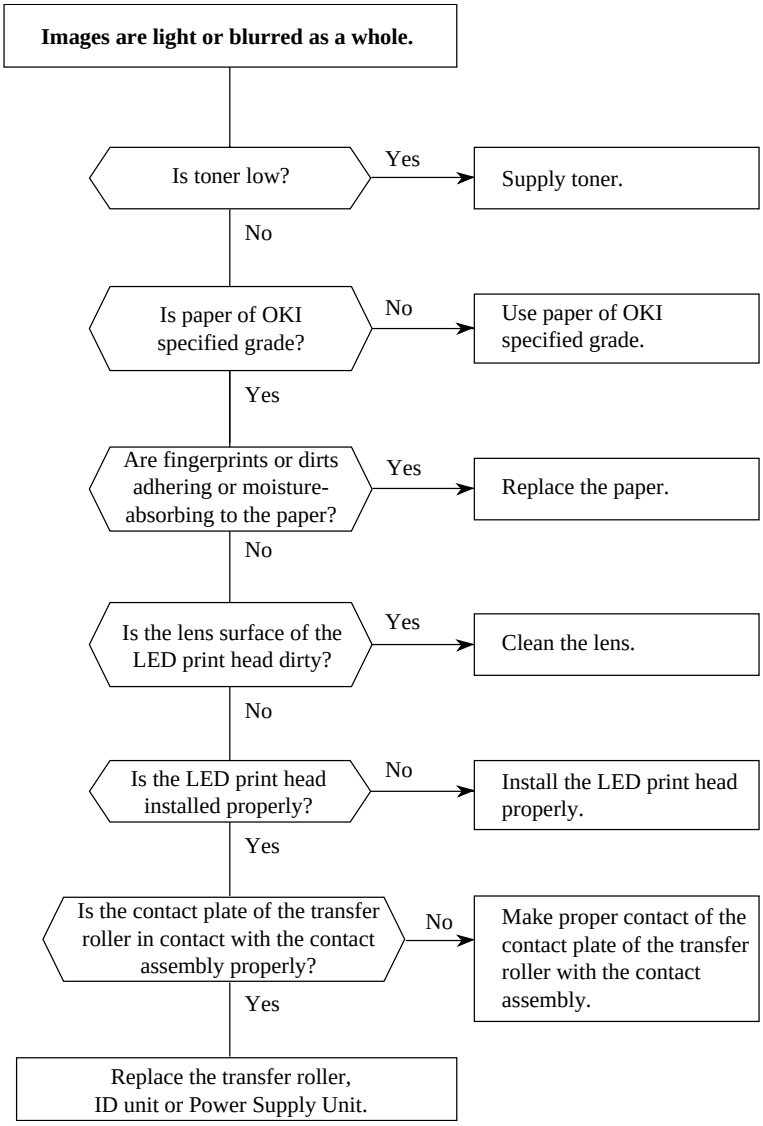
Troubleshooting flow chart 8:


Images are light or blurred as a whole.
Is toner low?
Yes
Supply toner.
No
Is paper of OKI specified grade?
No
Use paper of OKI specified grade.
Yes
Are fingerprints or dirts adhering or moisture-absorbing to the paper?
Yes
Replace the paper.
No
Is the lens surface of the LED print head dirty?
Yes
Clean the lens.
No
Is the LED print head installed properly?
No
Install the LED print head properly.
Yes
Is the contact plate of the transfer roller in contact with the contact assembly properly?
No
Make proper contact of the contact plate of the transfer roller with the contact assembly.
Yes
Replace the transfer roller, ID unit or Power Supply Unit.

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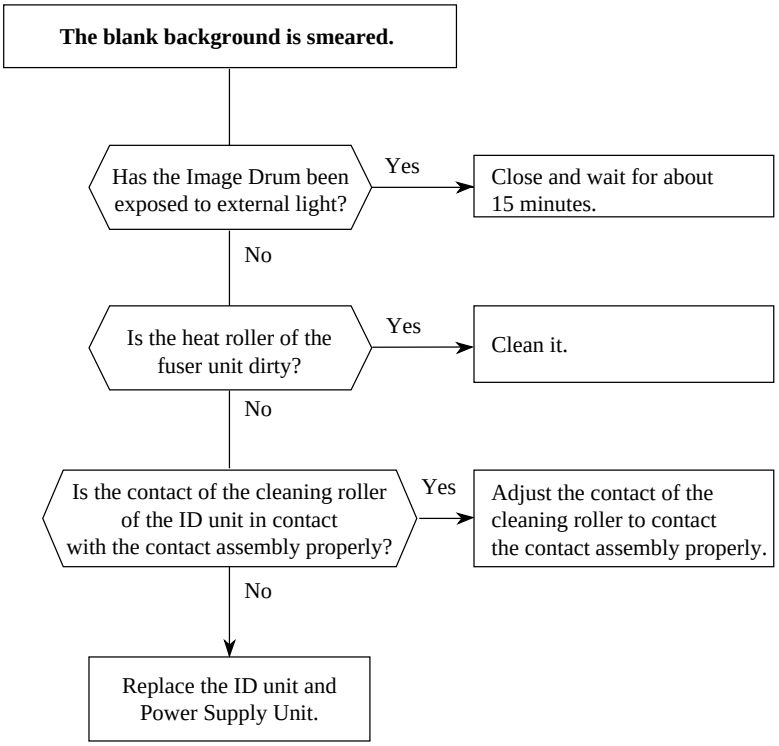
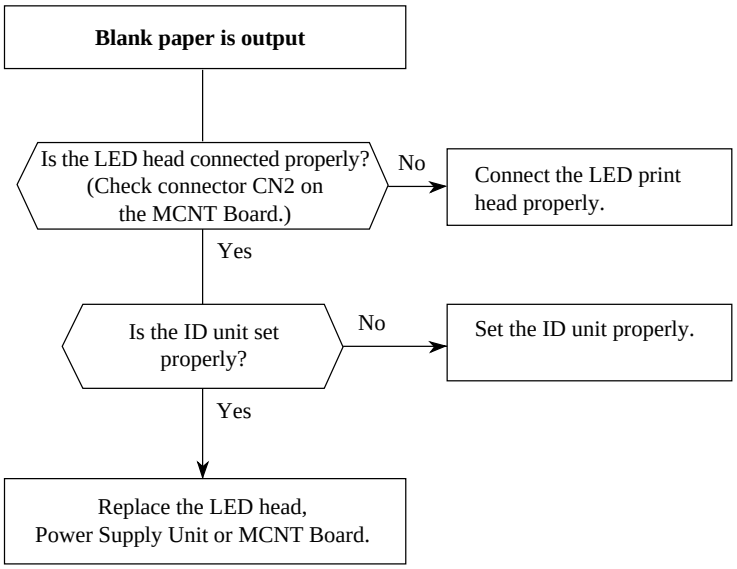
Troubleshooting flow chart 9:


The blank background is smeared.
Has the Image Drum been exposed to external light?
Yes
Close and wait for about 15 minutes.
No
Is the heat roller of the fuser unit dirty?
Yes
Clean it.
No
Is the contact of the cleaning roller of the ID unit in contact with the contact assembly properly?
Yes
Adjust the contact of the cleaning roller to contact the contact assembly properly.
No
Replace the ID unit and Power Supply Unit.

Troubleshooting flow chart 10:


Blank paper is output
Is the LED head connected properly? (Check connector CN2 on the MCNT Board.)
No
Connect the LED print head properly.
Yes
Is the ID unit set properly?
No
Set the ID unit properly.
Yes
Replace the LED head, Power Supply Unit or MCNT Board.

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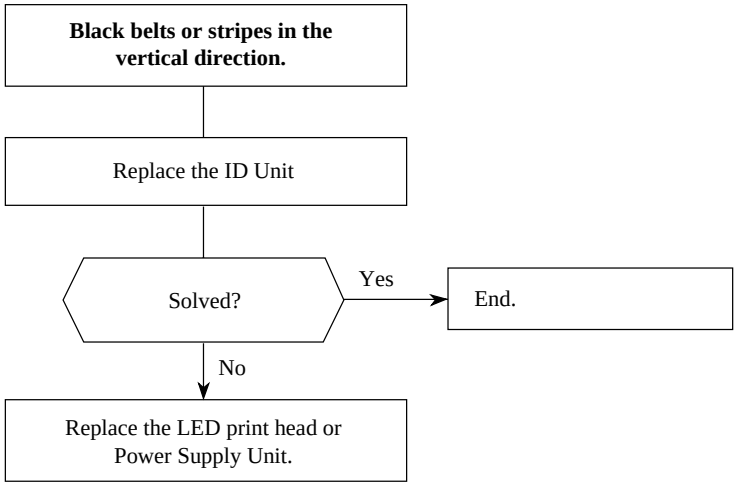
Troubleshooting flow chart 11:



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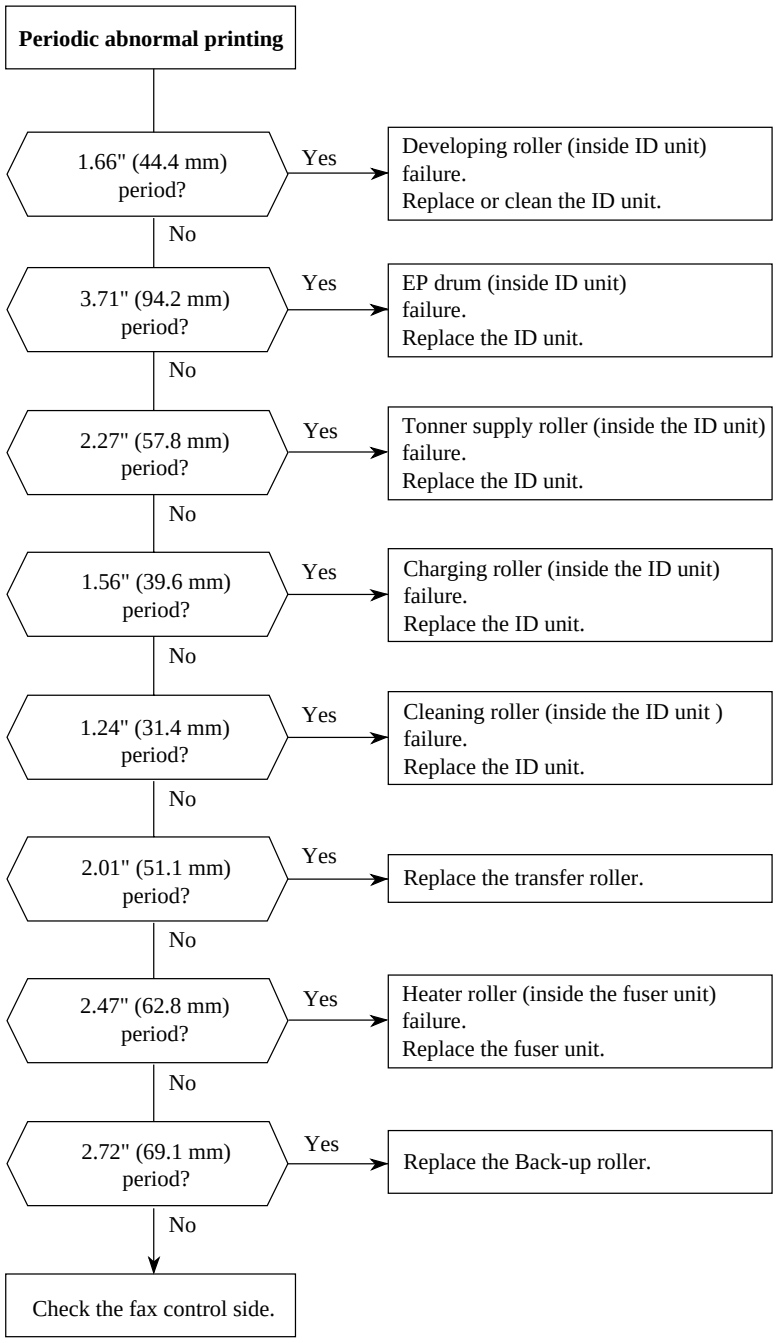
Troubleshooting flow chart 12:



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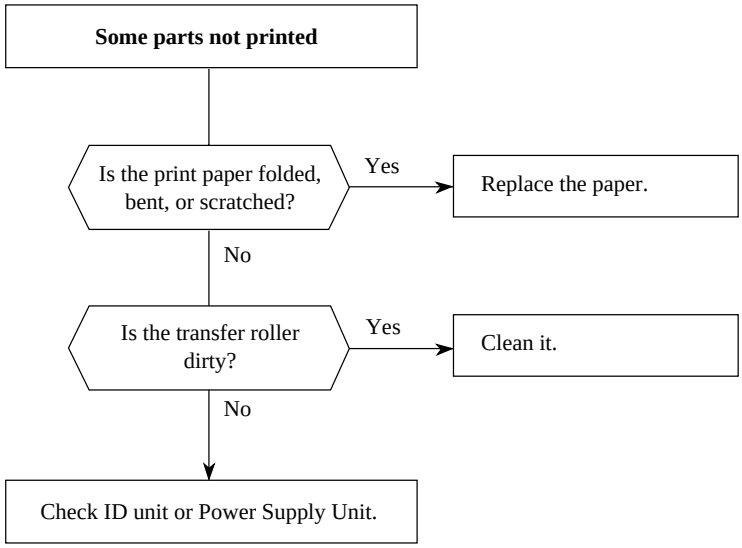
Troubleshooting flow chart 13:



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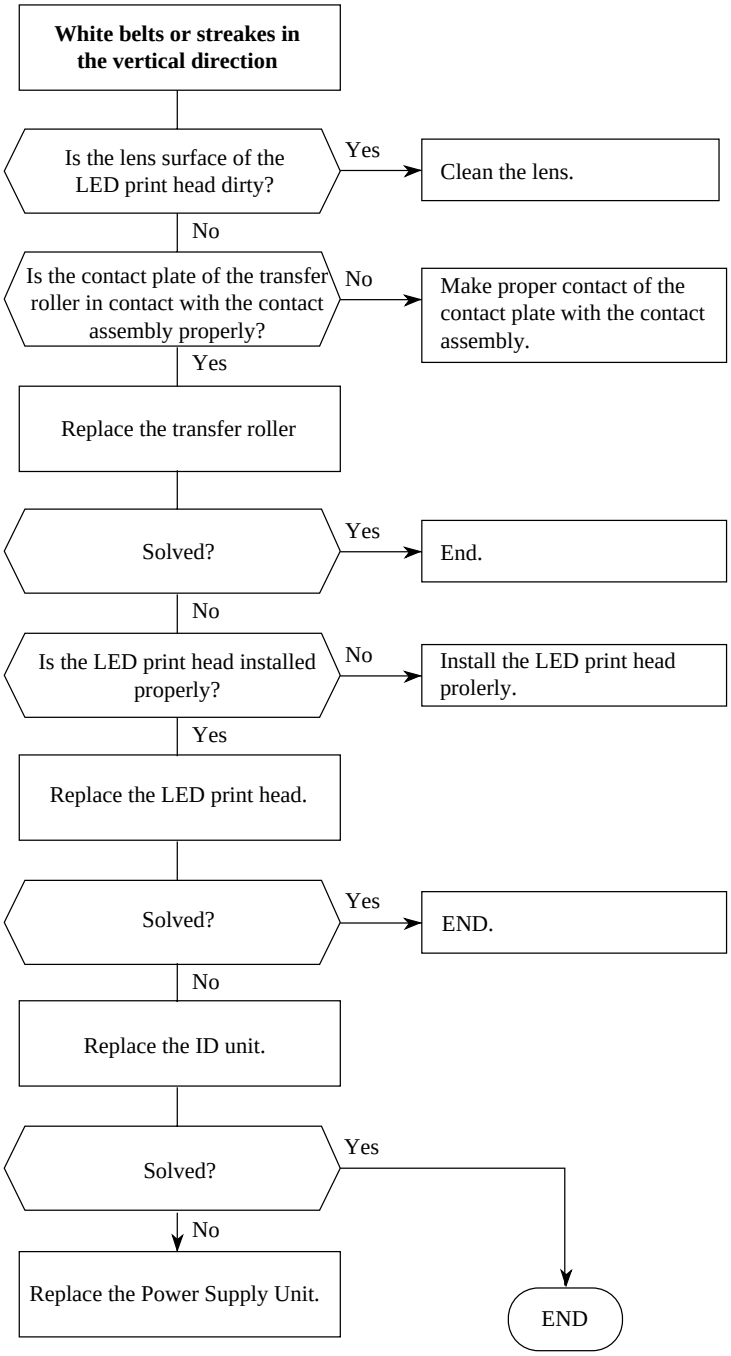
Troubleshooting flow chart 14:



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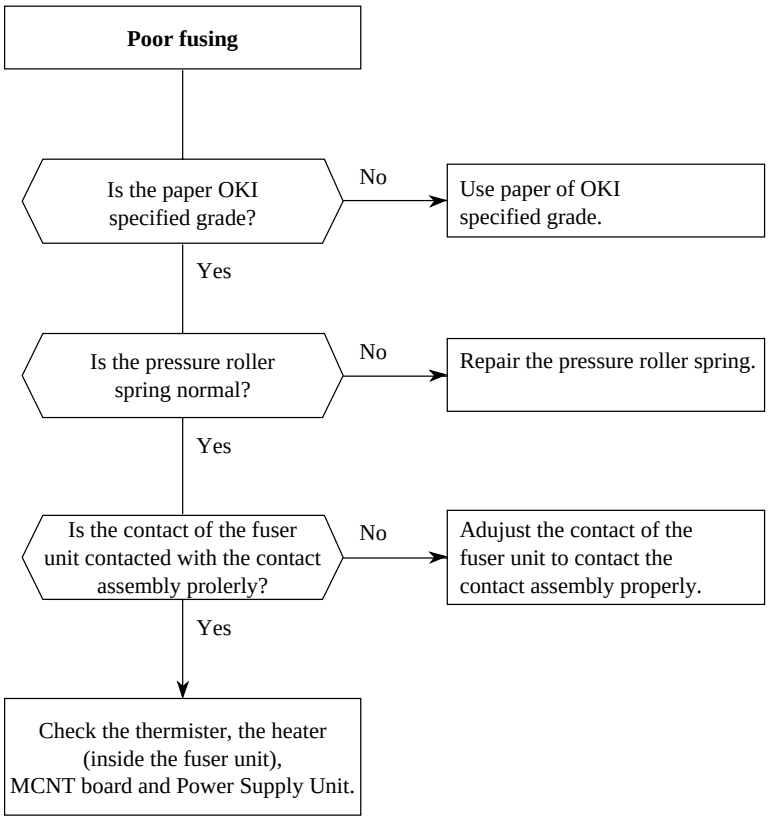
Troubleshooting flow chart 15:


Poor fusing
Is the paper OKI specified grade?
No
Use paper of OKI specified grade.
Yes
Is the pressure roller spring normal?
No
Repair the pressure roller spring.
Yes
Is the contact of the fuser unit contacted with the contact assembly prolerly?
No
Adujust the contact of the fuser unit to contact the contact assembly properly.
Yes
Check the thermister, the heater (inside the fuser unit), MCNT board and Power Supply Unit.

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8. DIPSWITCHS SETTING TABLE LIST

WN5 (Setting as of September 17, 1996)
Each country's hardware parameters comparison table. OKIFAX 4100/5000 series

Dip-switch No.		Sweden	Finland	The Netherlands	Ireland	Portugal	New Zealand	Australia	Remarks
S1	1	ON	ON	ON	ON	ON	ON	ON	Cascade connection
	2	ON	ON	ON	ON	ON	ON	ON	
	3	OFF	OFF	OFF	ON	OFF	ON	ON	Ring impedance
	4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	5	OFF	OFF	OFF	ON	OFF	OFF	OFF	
	6	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
S3	1	OFF	OFF	OFF	OFF	ON	OFF	OFF	DC loop resistance
	2	OFF	OFF	OFF	OFF	ON	OFF	ON	
S4	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Ring sensitivity adjustment
	2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

Dip-switch No.		Belgium	Spain	Greece	Italy	Norway	Denmark		Remarks
S1	1	ON	ON	ON	OFF	ON	ON		Cascade connection
	2	ON	ON	ON	OFF	ON	ON		
	3	OFF	OFF	OFF	OFF	OFF	OFF		Ring impedance
	4	OFF	OFF	OFF	OFF	OFF	OFF		
	5	ON	OFF	OFF	OFF	OFF	OFF		
	6	ON	OFF	OFF	OFF	OFF	OFF		
S3	1	OFF	ON	OFF	OFF	OFF	ON		DC loop resistance
	2	OFF	ON	OFF	OFF	ON	ON		
S4	1	ON	ON	OFF	OFF	OFF	OFF		Ring sensitivity adjustment
	2	OFF	OFF	OFF	OFF	OFF	OFF		

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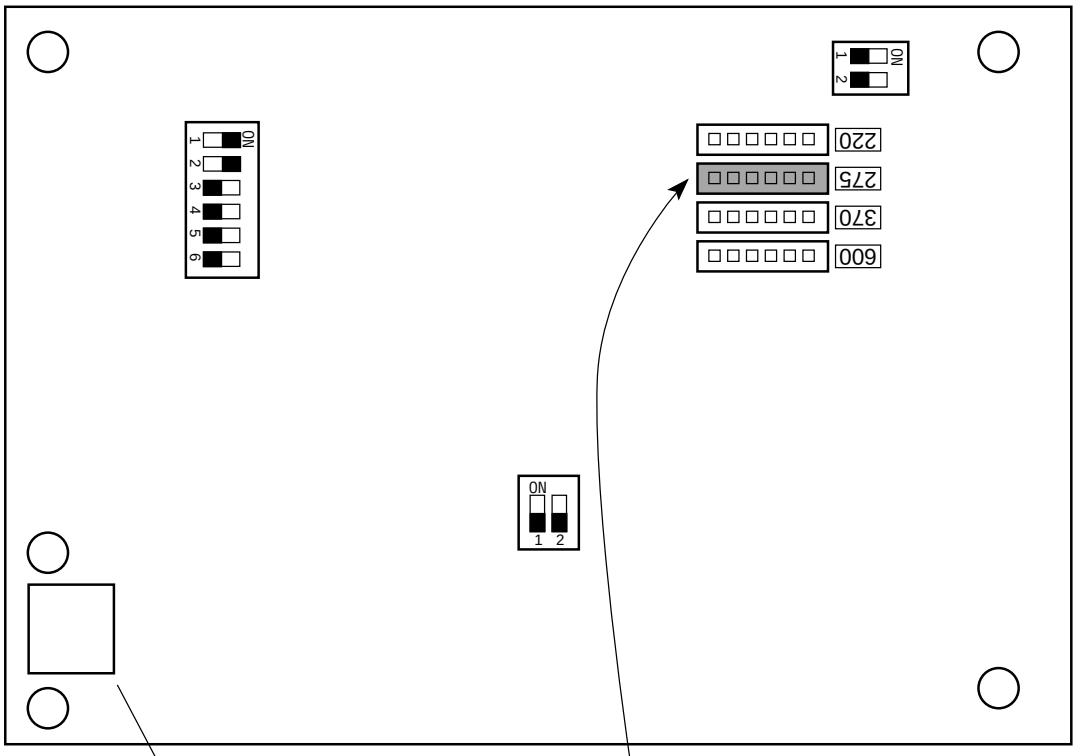
1 Sweden (40044301)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "275".

B	N L	IRL	N	D K
S	S F	I	G R	E
P	AUS	N Z	S P	M A
X 1	X 2	X 3	X 4	X 5

Magnified figure

Marking a portion "S" with red oil ink.

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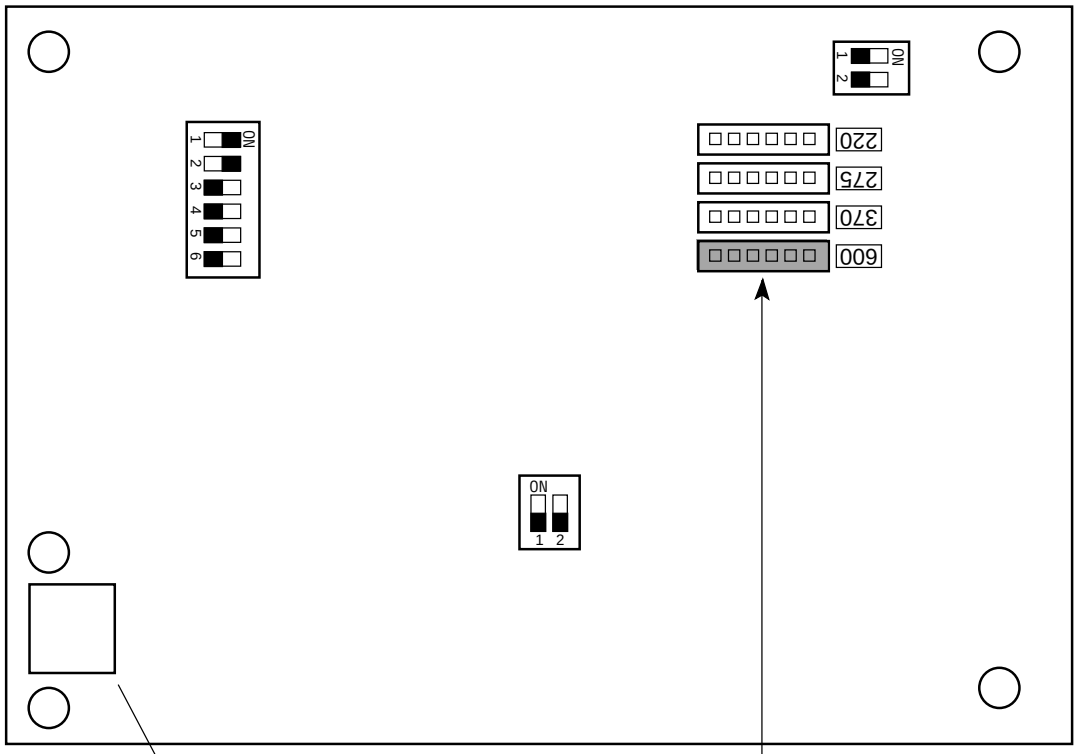
2 Finland (40044302)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K
S	S F	I	G R	E
P	AUS	N Z	S P	M A
X 1	X 2	X 3	X 4	X 5

Magnified figure

Marking a portion "SF" with red oil ink.

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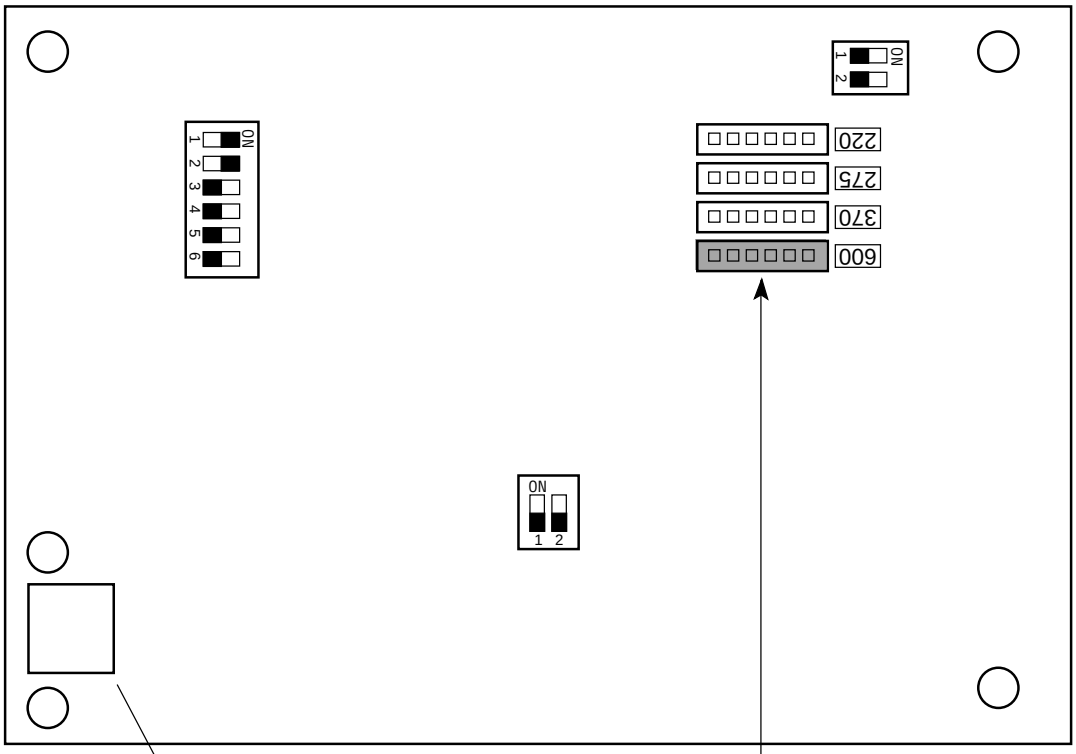
3 Holland (40044303)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K
S	S F	I	G R	E
P	AUS	N Z	S P	M A
X 1	X 2	X 3	X 4	X 5

Magnified figure

Marking a portion "NL" with red oil ink.

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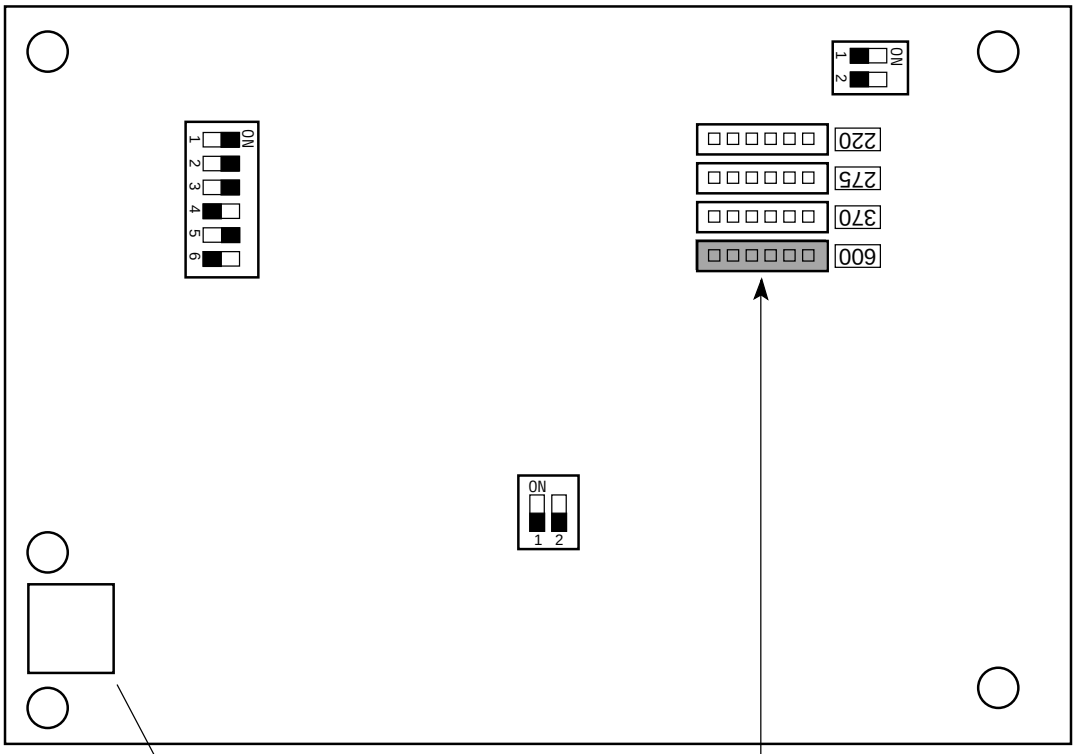
4 Ireland (40044304)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "IRL" with red oil ink.

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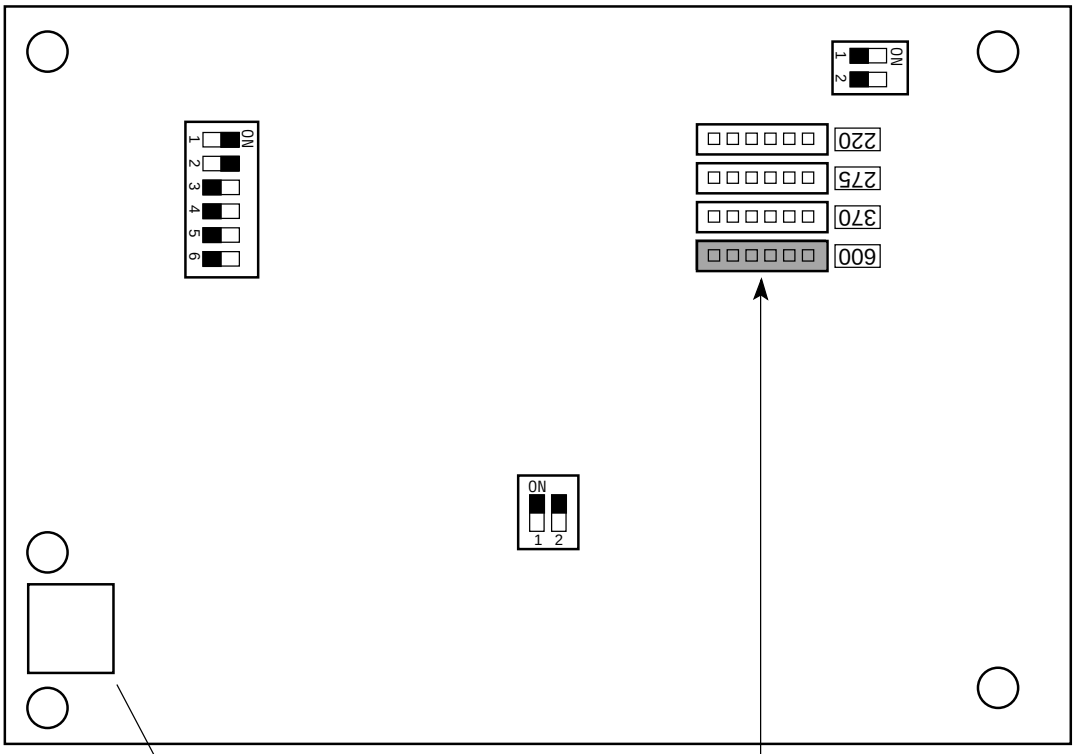
5 Portugal (40044305)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "P" with red oil ink.

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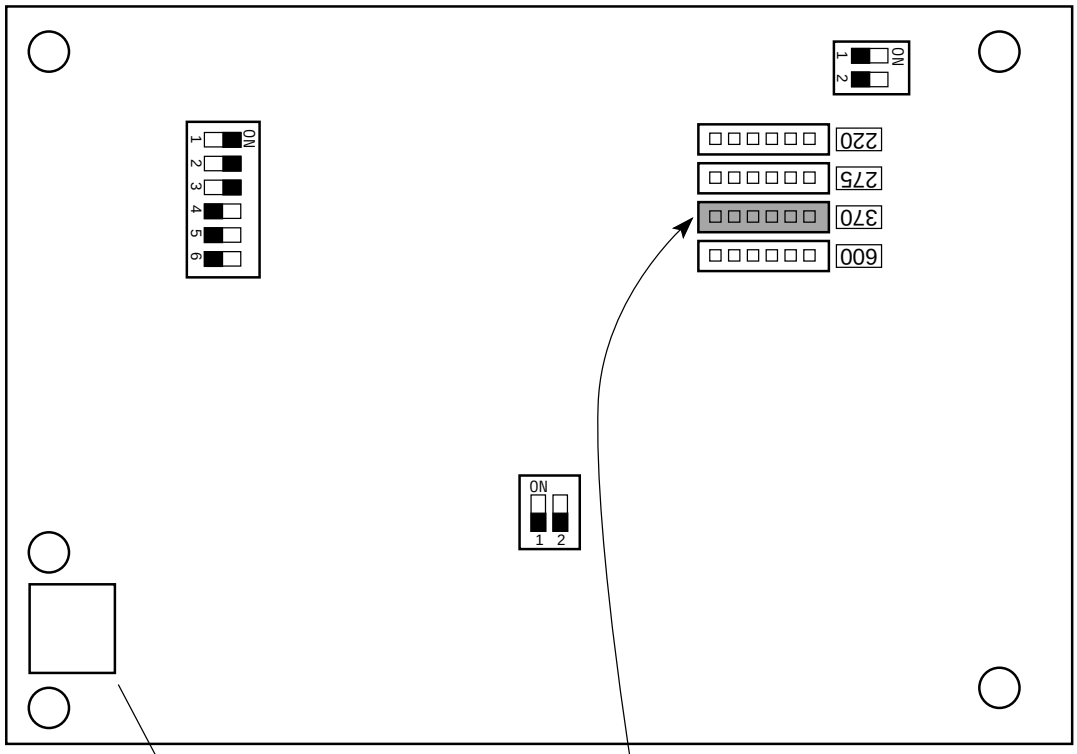
6 New Zealand (40044306)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "370".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "NZ" with red oil ink.

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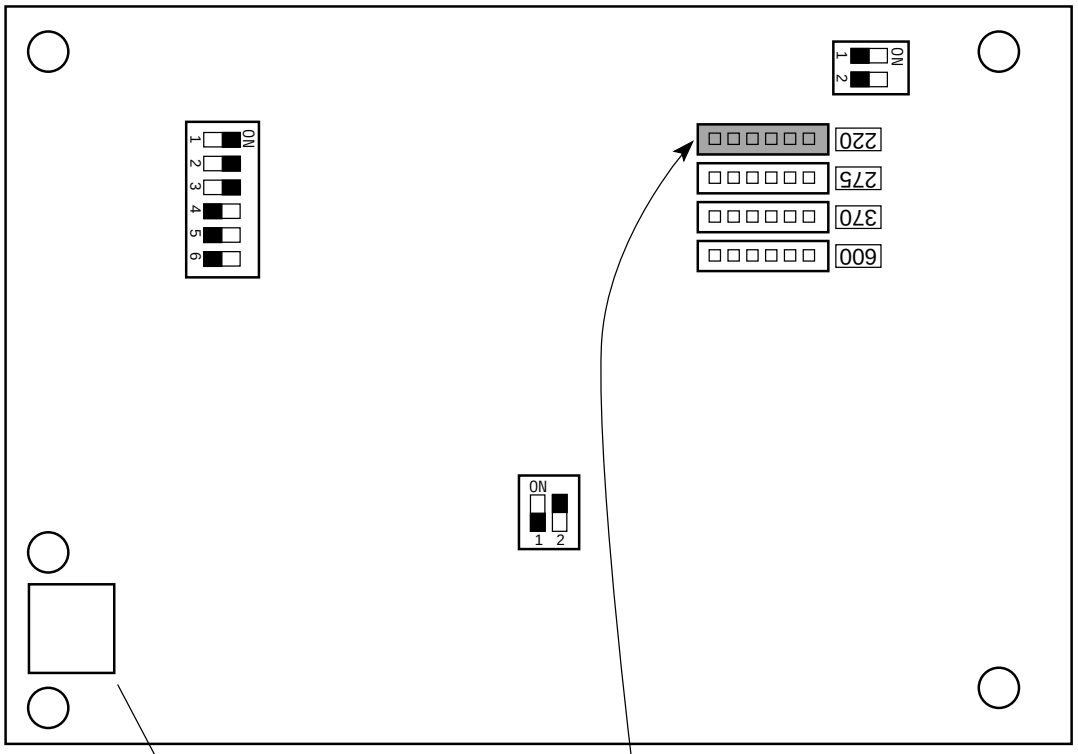
7 Australia (40044307)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "220".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "AUS" with red oil ink.

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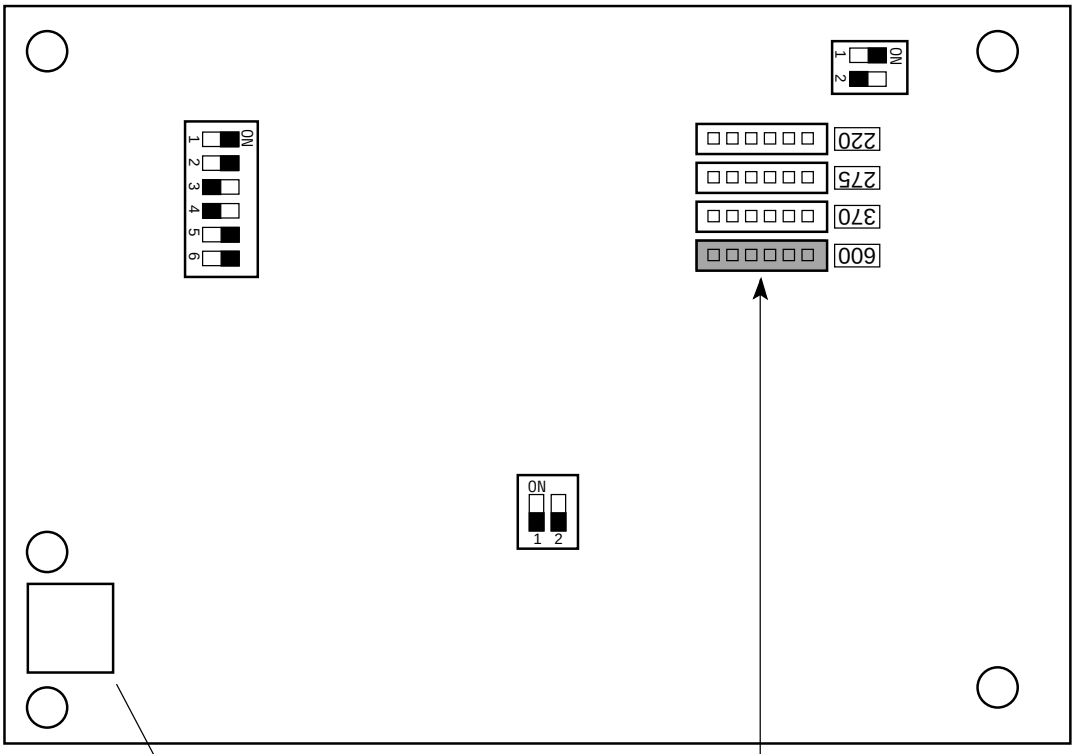
8 Belgium (40044308)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K
S	S F	I	G R	E
P	AUS	N Z	S P	M A
X 1	X 2	X 3	X 4	X 5

Magnified figure

Marking a portion "B" with red oil ink.

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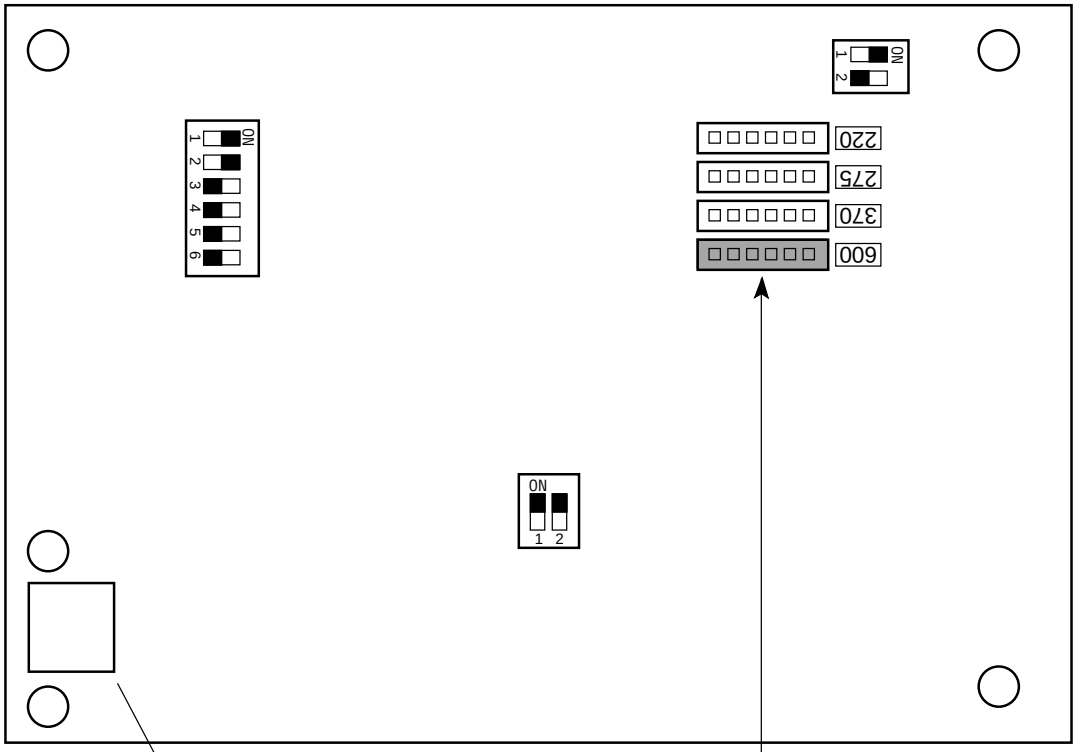
9 Spain (40044309)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "E" with red oil ink.

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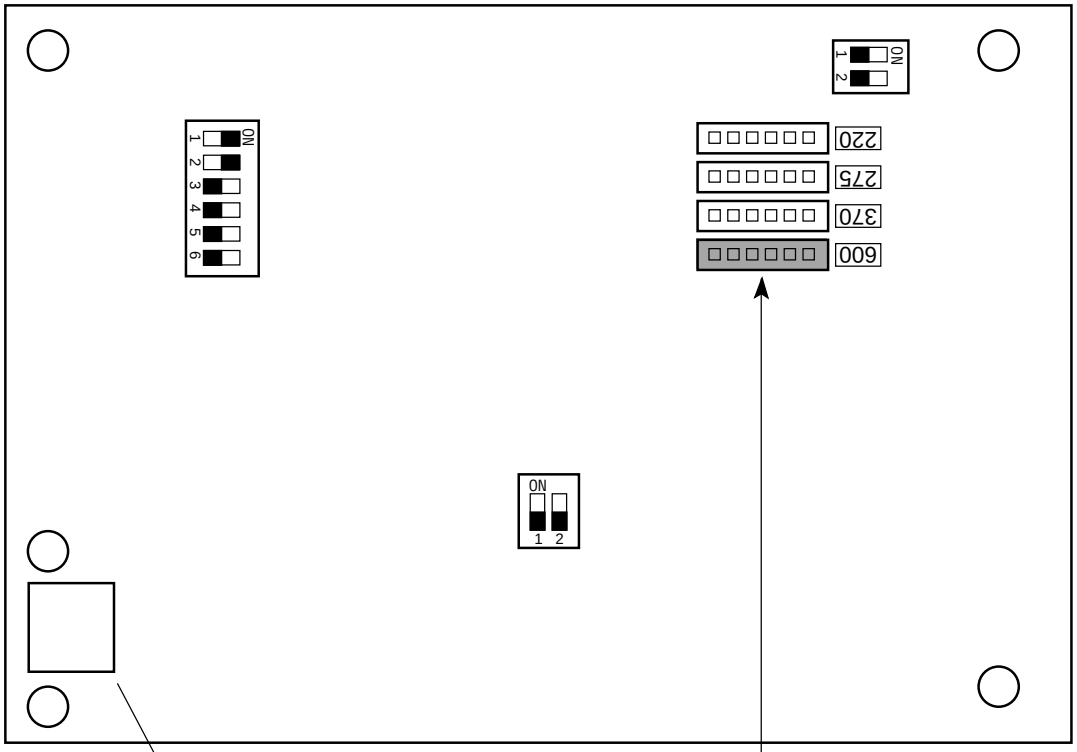
10 Greece (40044310)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "GR" with red oil ink.

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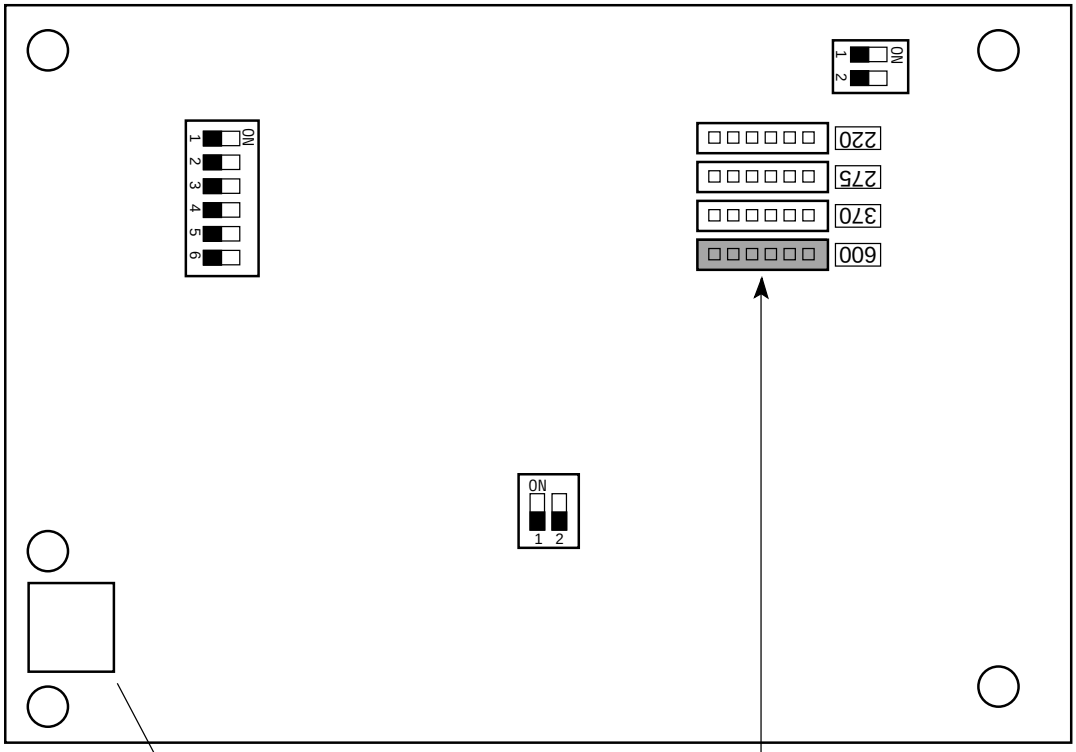
11 Italy (40044312)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "I" with red oil ink.

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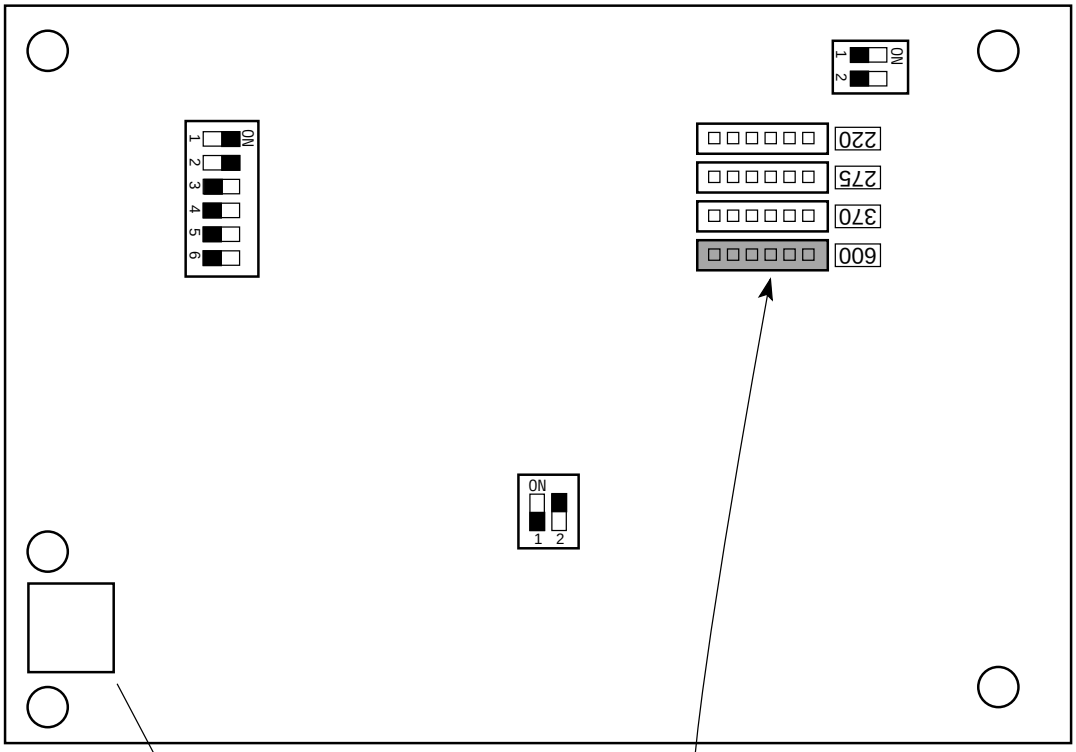
12 Norway (40044313)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "N" with red oil ink.

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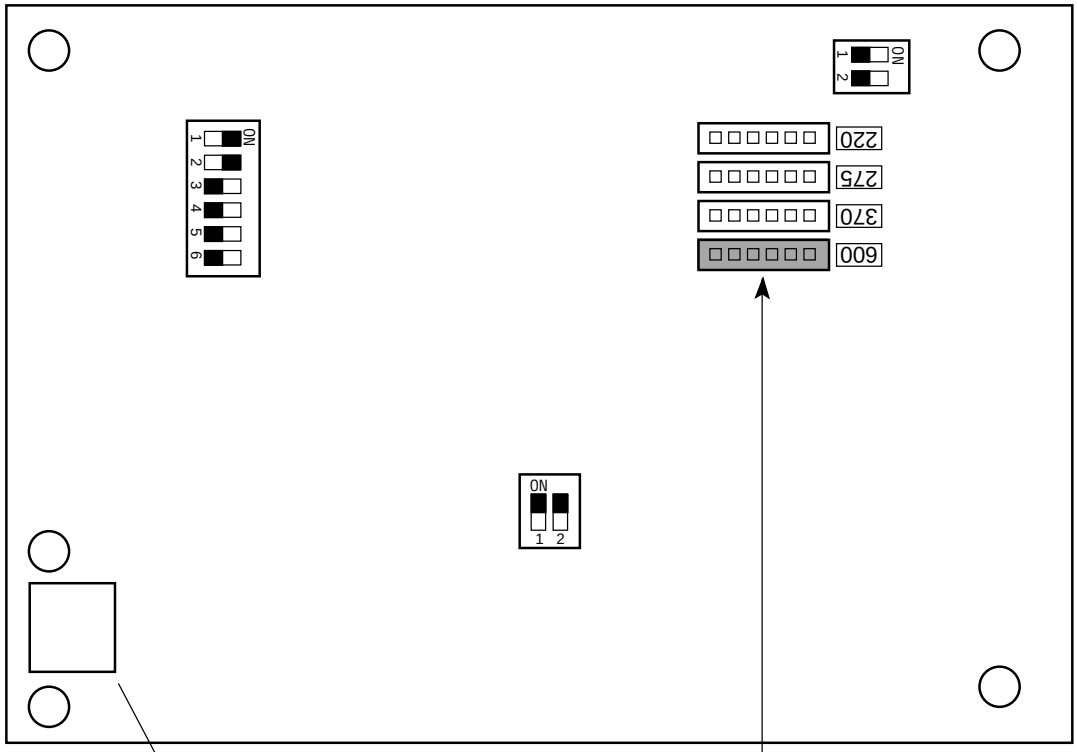
13 Denmark (40044314)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Put short-plug (40095701) into designated connector.

For detail, see the figure below.



Put short-plug (40095701) into connector indicated "600".

B	N L	IRL	N	D K	
S	S F	I	G R	E	
P	AUS	N Z	S P	M A	
X 1	X 2	X 3	X 4	X 5	

Magnified figure

Marking a portion "DK" with red oil ink.

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Dip-switch No.		Germany	Switzer-land	Austria					Remarks
S1	1	OFF	OFF	OFF					Cascade connection
	2	OFF	OFF	OFF					
	3	OFF	OFF	OFF					Not used
	4	ON	OFF	OFF					Ring impedance
S4	1	OFF	OFF	OFF					Ring sensitivity adjustment
	2	OFF	OFF	OFF					
	3	ON	ON	OFF					Impedance matching switch
	4	OFF	OFF	ON					
	5	ON	ON	OFF					Receiving Gain (for Paralle pickup)
	6	OFF	OFF	ON					
	7	ON	ON	OFF					Receiving Gain
	8	OFF	OFF	ON					

FN5
Each country's hardware parameters comparison table.

Dip-switch No.		United Kingdom	France						Remarks
S5	1	OFF	ON						Impedance matching switch
	2	ON	OFF						
	3	OFF	ON						Receiving Gain (for Paralle Pickup)
	4	ON	OFF						
	5	OFF	ON						Receiving Gain
	6	ON	OFF						

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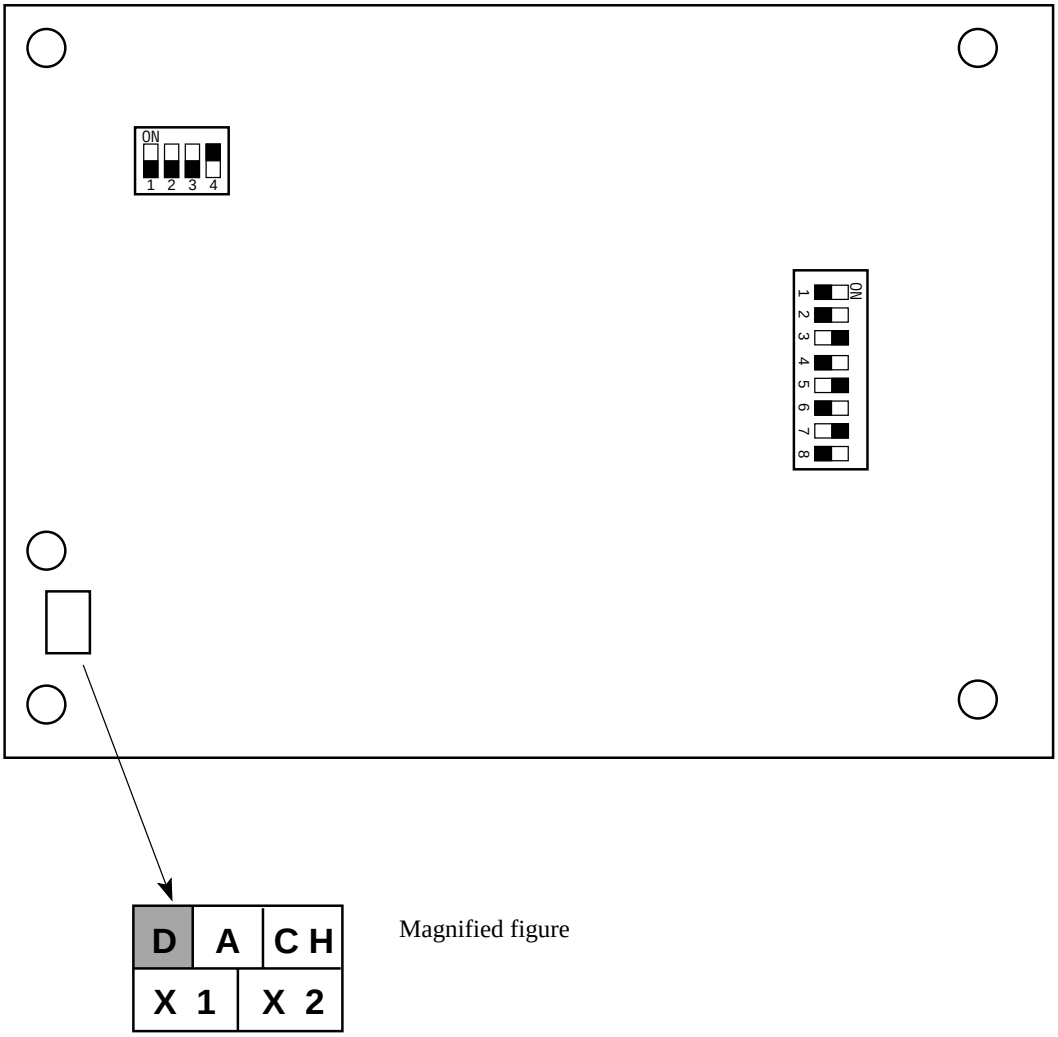
1 German (40044101)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.

For detail, see the figure below.



Magnified figure

Marking a portion "D" with red oil ink.

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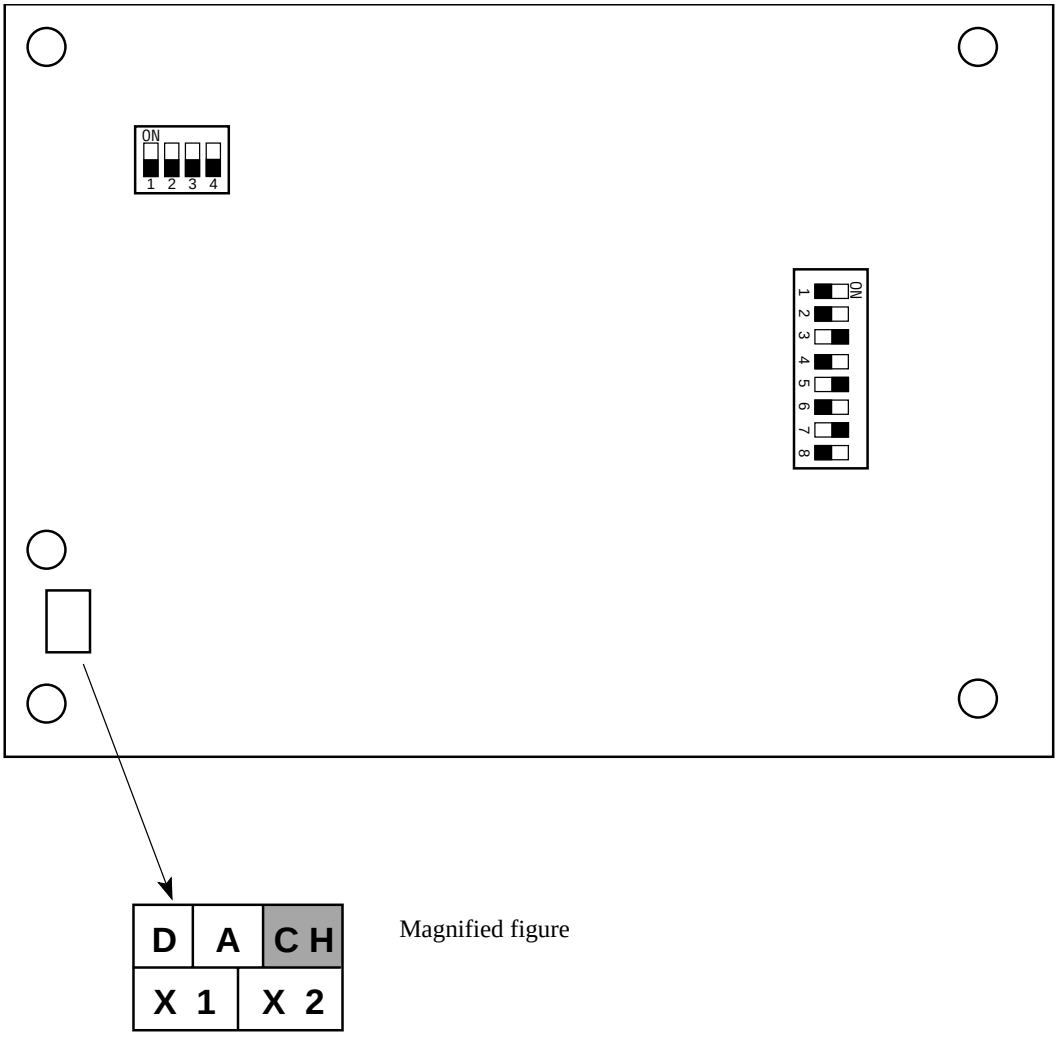
2 Swiss (40044102)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.

For detail, see the figure below.



Magnified figure

Marking a portion "CH" with red oil ink.

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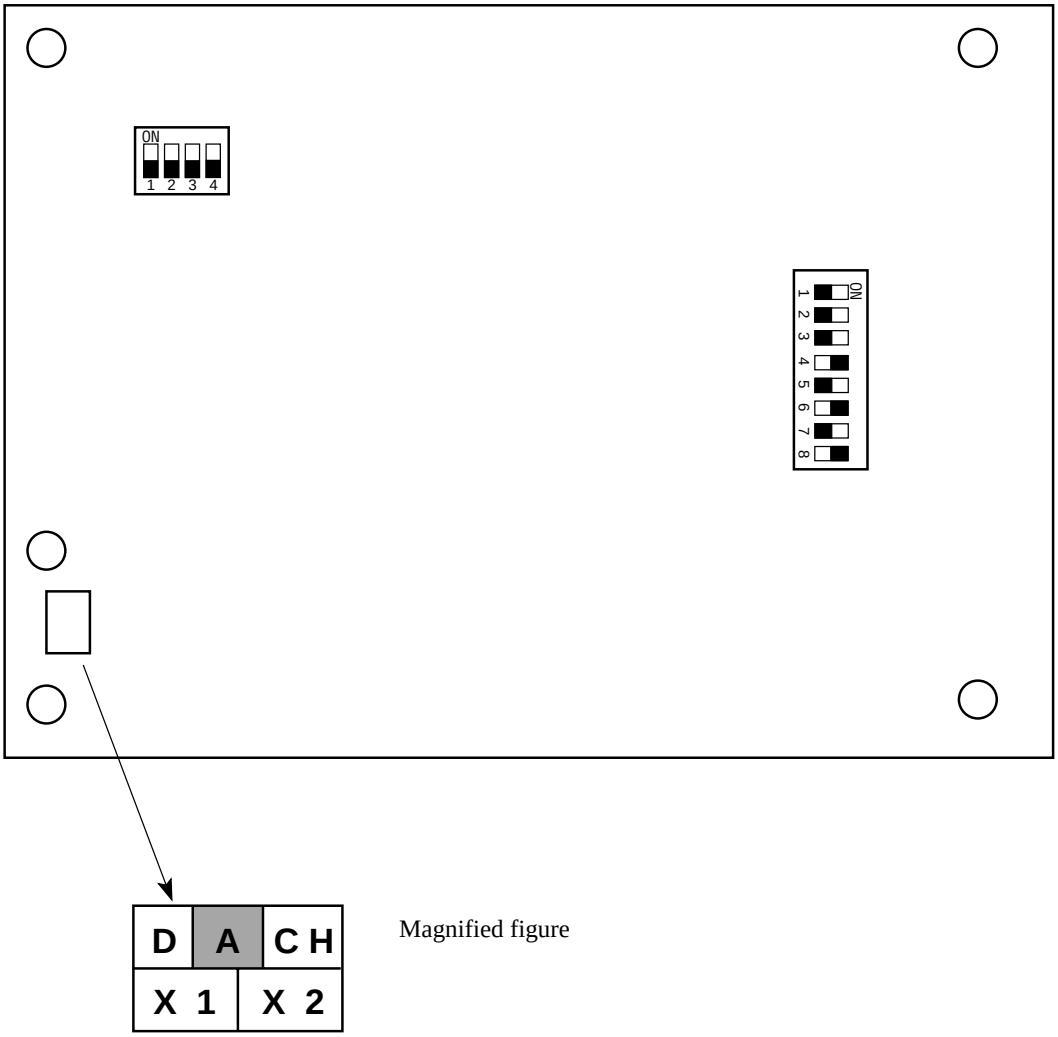
3 Austria (40044103)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.

For detail, see the figure below.



Magnified figure

Marking a portion "A" with red oil ink.

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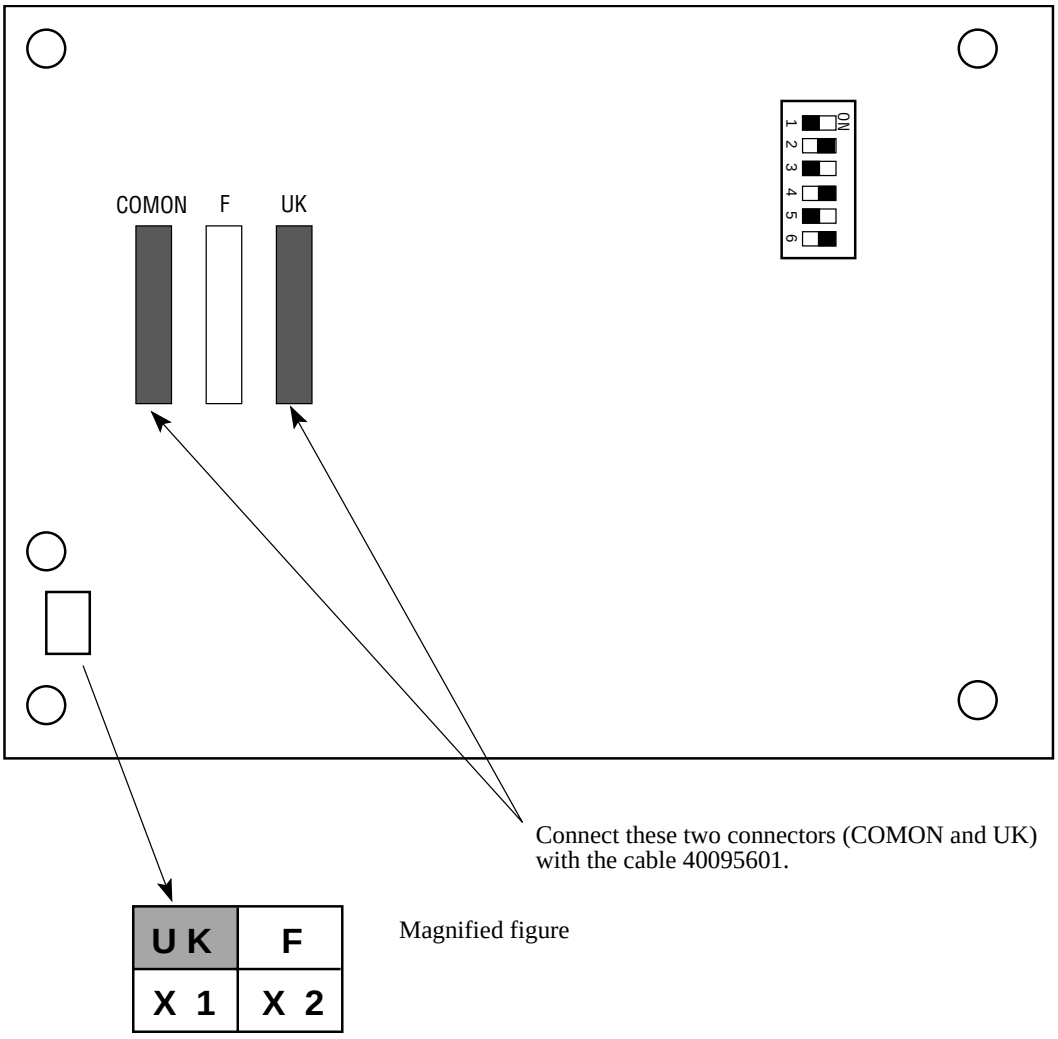
1 United kingdam (40044401)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Setting connector (40095601)

For detail, see the figure below.



Marking a portion "UK" with red oil ink.

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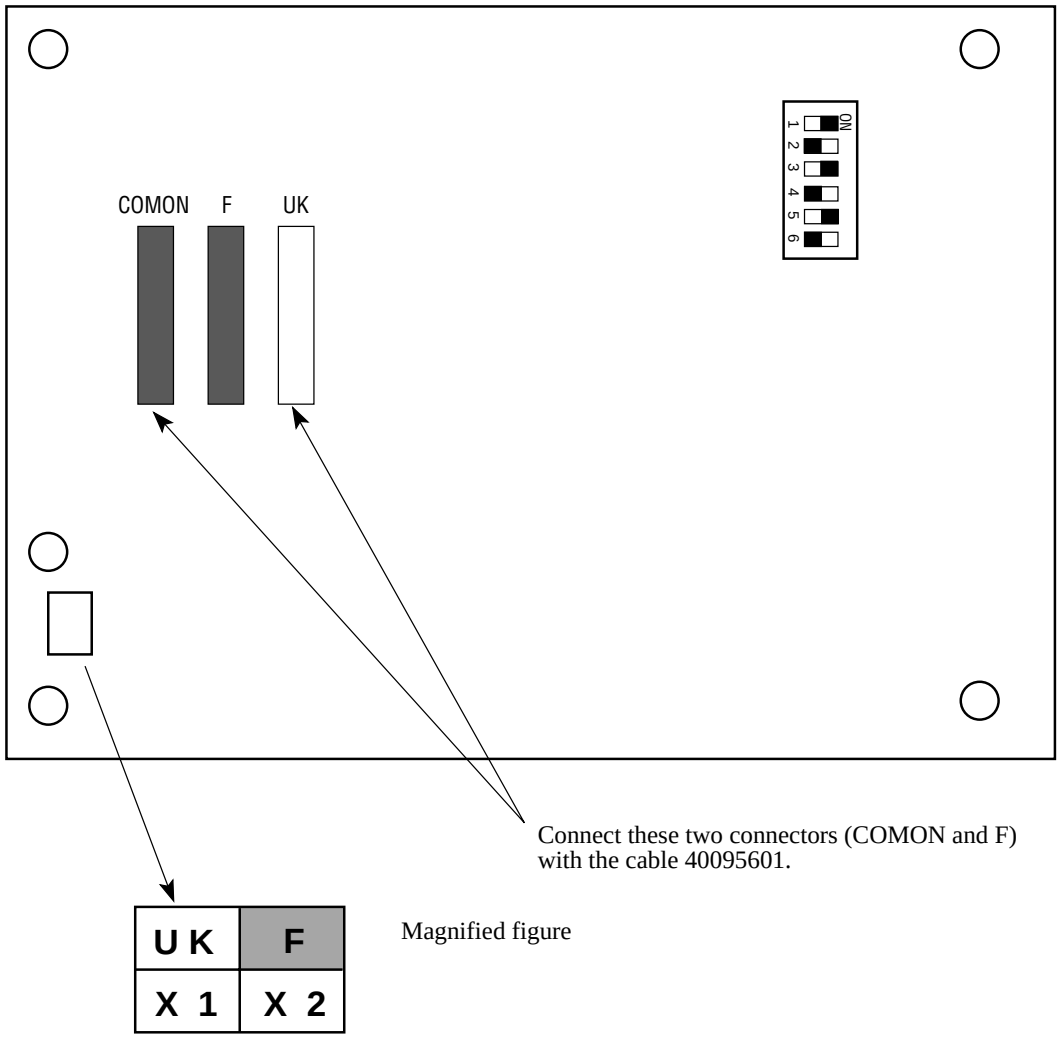
2 France (40044402)

This section gives the following instruction.

- DIP switch setting
- Instructions of marking with red oil ink.
- Setting connector (40095601)

For detail, see the figure below.



Marking a portion "F" with red oil ink.

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Dip-switch No.		Sweden	Finland	The Netherlands	Ireland	Portugal	New Zealand	Australia	Remarks
SW1	1	ON	ON	OFF	OFF	OFF	OFF	OFF	Balancing Network
	2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	3	OFF	OFF	OFF	OFF	OFF	OFF	ON	
	4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	5	OFF	OFF	OFF	OFF	ON	OFF	OFF	
	6	OFF	OFF	ON	OFF	OFF	OFF	OFF	
	7	OFF	OFF	OFF	ON	OFF	OFF	OFF	
	8	OFF	OFF	OFF	OFF	OFF	ON	OFF	
SW2	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Impedance Matching
	3	ON	ON	ON	ON	ON	OFF	OFF	
	4	OFF	OFF	OFF	OFF	OFF	ON	OFF	
	5	OFF	OFF	OFF	OFF	OFF	OFF	ON	
	6	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	7	OFF	OFF	ON	OFF	OFF	OFF	OFF	DC Resistance
	8	ON	ON	OFF	ON	ON	ON	ON	Impedance Setting
SW3	1	ON	ON	ON	ON	ON	ON	OFF	Sending Frequency Setting
	2	ON	ON	ON	ON	ON	ON	OFF	
	3	ON	ON	OFF	ON	ON	OFF	OFF	Sending Level Setting
	4	OFF	OFF	ON	OFF	ON	ON	OFF	
	5	OFF	OFF	OFF	ON	ON	ON	OFF	
	6	ON	ON	ON	OFF	OFF	OFF	OFF	
	7	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Not Used
	8	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
SW5	1	ON	ON	OFF	ON	ON	OFF	ON	Rx Frequency (FLUP)
	2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Receiving Level Setting
	3	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	4	OFF	ON	ON	OFF	ON	ON	ON	
	5	OFF	ON	ON	OFF	OFF	ON	OFF	
	6	ON	OFF	OFF	ON	ON	OFF	ON	
	7	ON	ON	ON	ON	ON	ON	ON	
	8	ON	ON	OFF	ON	ON	ON	OFF	Rx Frequency (FHUP)
SW6	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Manual Pad Setting
	2	OFF	OFF	OFF	ON	ON	ON	OFF	Automatic Gain Control
	3	ON	ON	OFF	OFF	OFF	OFF	ON	
	4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Not Used
	5	ON	ON	OFF	ON	OFF	OFF	OFF	Tx Frequency Setting
	6	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Not Used

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Dip-switch No.		Spain	Greece	Switzer-land	Austria			Remarks
SW1	1	OFF	OFF	ON	OFF			Balancing Network (Side-tone Setting)
	2	ON	OFF	OFF	ON			
	3	OFF	OFF	OFF	OFF			
	4	OFF	ON	OFF	OFF			
	5	OFF	OFF	OFF	OFF			
	6	OFF	OFF	OFF	OFF			
	7	OFF	OFF	OFF	OFF			
	8	OFF	OFF	OFF	OFF			
SW2	1	OFF	OFF	OFF	OFF			
	2	OFF	OFF	ON	ON			Impedance Matching Setting
	3	ON	ON	OFF	OFF			
	4	OFF	OFF	OFF	OFF			
	5	OFF	OFF	OFF	OFF			
	6	OFF	OFF	OFF	OFF			
	7	ON	ON	OFF	OFF			DC Resistance
	8	OFF	OFF	OFF	OFF			Impedance Setting
SW3	1	ON	ON	OFF	OFF			Sending Frequency Setting
	2	ON	ON	OFF	OFF			
	3	OFF	ON	OFF	OFF			Sending Level Setting
	4	ON	ON	OFF	OFF			
	5	OFF	ON	ON	ON			
	6	ON	OFF	OFF	OFF			
	7	OFF	OFF	OFF	OFF			Not Used
	8	OFF	OFF	OFF	OFF			
SW5	1	OFF	OFF	ON	ON			Rx Frequency (FLUP)
	2	ON	OFF	ON	ON			Receiving Level Setting
	3	OFF	ON	OFF	OFF			
	4	ON	ON	OFF	OFF			
	5	OFF	ON	ON	ON			
	6	OFF	OFF	OFF	OFF			
	7	ON	OFF	OFF	OFF			
	8	OFF	OFF	OFF	OFF			Rx Frequency (FHUP)
SW6	1	OFF	OFF	OFF	OFF			Manual Pad Setting
	2	OFF	OFF	OFF	OFF			Automatic Gain Control
	3	OFF	OFF	OFF	OFF			
	4	OFF	OFF	OFF	OFF			Not Used
	5	OFF	OFF	OFF	OFF			Tx Frequency Setting
	6	OFF	OFF	OFF	OFF			Not Used

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Dip-switch No.		United Kingdom	Italy	Denmark	Norway	Belgium			Remarks
SW1	1	ON	OFF	OFF	OFF	OFF			Balancing Network (Side Tone Setting)
	2	OFF	ON	OFF	OFF	ON			
	3	OFF	OFF	ON	OFF	OFF			
	4	OFF	OFF	OFF	ON	OFF			
	5	ON	OFF	OFF	OFF	OFF			Impedance Matching Setting
	6	OFF	ON	OFF	OFF	ON			
	7	OFF	OFF	ON	ON	OFF			
	8	OFF	OFF	OFF	ON	OFF			
SW2	1	ON	OFF	OFF	OFF	OFF			
	2	OFF	ON	OFF	OFF	ON			MF-tone Level Setting
	3	OFF	OFF	ON	OFF	OFF			
	4	OFF	OFF	OFF	ON	OFF			
SW3	1	ON	OFF	OFF	OFF	ON			Seding Level Setting
	2	OFF	ON	OFF	OFF	OFF			
	3	OFF	OFF	ON	OFF	OFF			
	4	OFF	OFF	OFF	ON	ON			
	5	ON	OFF	ON	ON	OFF			MF-tine Level Setting
	6	ON	ON	OFF	OFF	ON			Automatic Gain Control
	7	OFF	ON	OFF	OFF	OFF			
	8	OFF	OFF	OFF	OFF	OFF			Manual Pad Setting
SW4	1	ON	OFF	ON	ON	ON			MEKE:
	2	OFF	ON	OFF	OFF	OFF			
	3	ON	ON	OFF	OFF	ON			RATE:
	4	OFF	OFF	ON	ON	OFF			
	5	OFF	ON	ON	ON	ON			DC Resistance
	6	OFF	OFF	ON	OFF	OFF			Threshold
SW5	1	ON	OFF	OFF	OFF	OFF			Receiving Level Setting
	2	OFF	ON	OFF	OFF	OFF			
	3	OFF	OFF	ON	OFF	ON			
	4	OFF	OFF	OFF	ON	OFF			

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NTIF
Each country's hardware parameters comparison table:

Dip-sw 3 Setting Table (U.K.)

No.	Setting	Remarks
1	OFF	Route change
2	ON	
3	OFF	
4	OFF	Not used

Dip-sw 3 Setting Table (Except U.K.)

No.	Setting	Remarks
1	ON	Route change
2	OFF	
3	ON	
4	OFF	Not used

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APPENDIX A PC BOARD DESCRIPTIONS AND OPERATION

A1.1 Unit Configuration and Block Diagram

1. The unit configuration of the OKIOFFICE 44/OKIFAX 4100 is as follows:

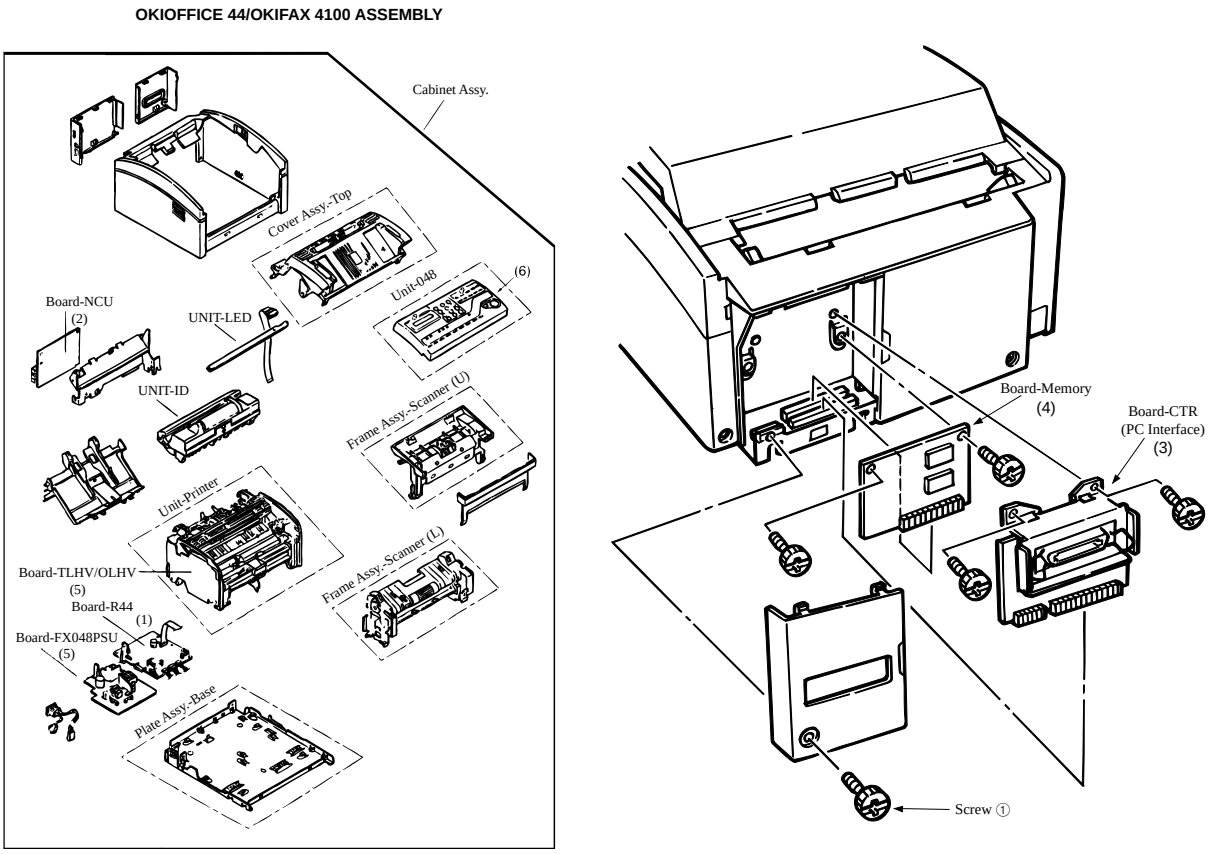

Figure A.1.1.1 Unit Configuration of OKIOFFICE 44/OKIFAX 4100

(1) Main control board (R44)
(2) Network control unit (NCU)
(3) PC interface board (CTR): option
(4) Memory board (MEMO): option
(5) Power supply unit (048 POW, OLHV/TLHV)
(6) Operation panel board (04W)
(7) Optional board
- Telephone interface board (TEL)
- NCU-TEL interface board (NTIF)
- Ten-key board (10KY)
- Hook board (HOOK)

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2. The unit configuration of the OKIFAX 5000 series is as follows:

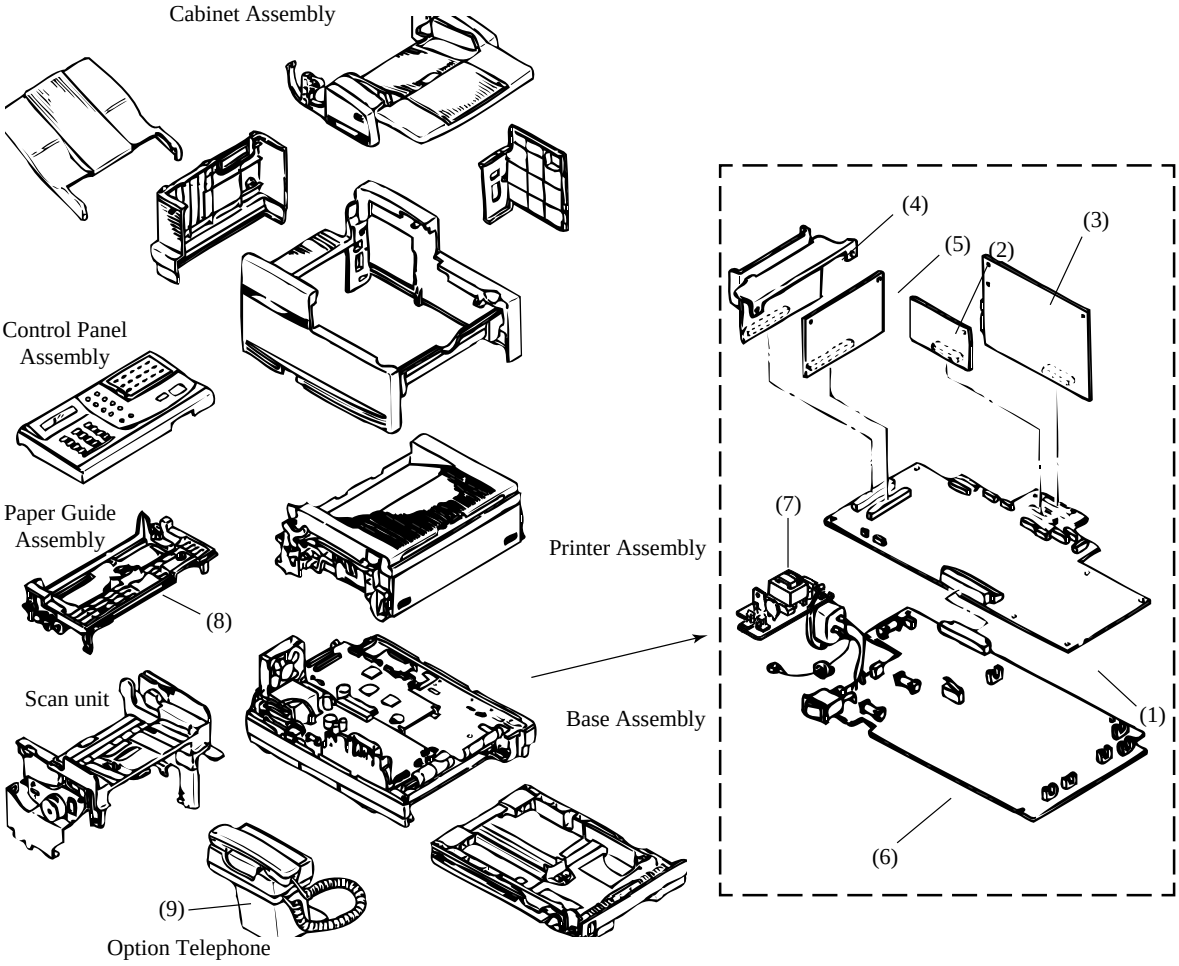

Figure A.1.1.2 Unit Configuration of OKIFAX 5000 Series

(1) Main control board (OKIFAX 5500/5600: M17 for ODA/M17-2 for INT'L)
(OKIFAX 5200/5300: M17-3 for ODA/M17-4 for INT'L)
(2) Modem board (MODEM): OKIFAX 5500/5600 only
(3) Network control unit (NCU)
(4) PC interface board (CTR): option
(5) Memory board (MEM): option
(6) Power supply unit (1VP: 120V, 2VP: 230V)
(7) Power supply unit (SUB POW)
(8) Operation panel board (05WH)
(9) Optional board
- Telephone interface board (TEL)
- NCU-TEL interface board (NTIF)
- Ten-key board (10KY)
- Hook board (HOOK)

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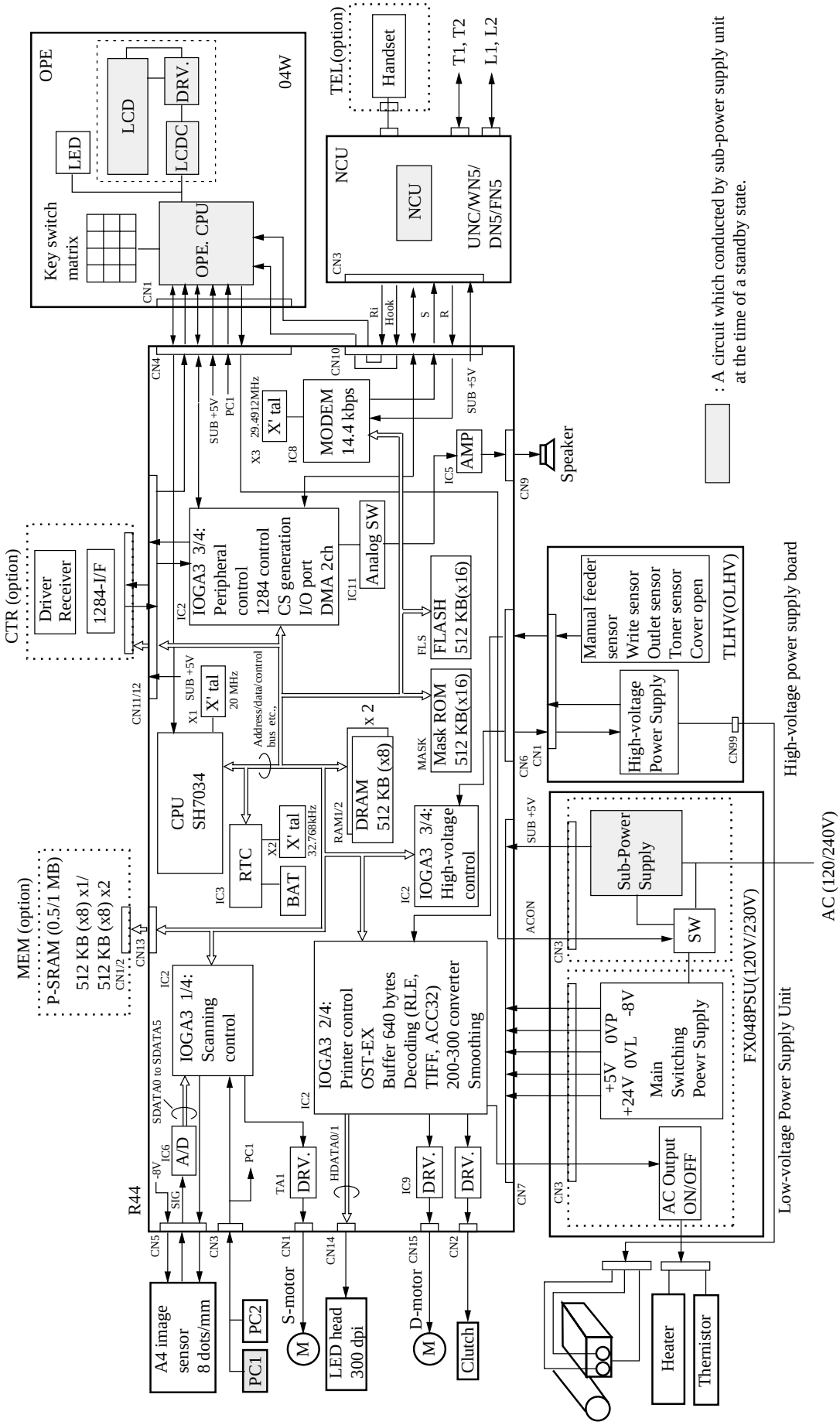

Figure A1.2.1 OKI OFFICE44/OKIFAX 4100 Block Diagram

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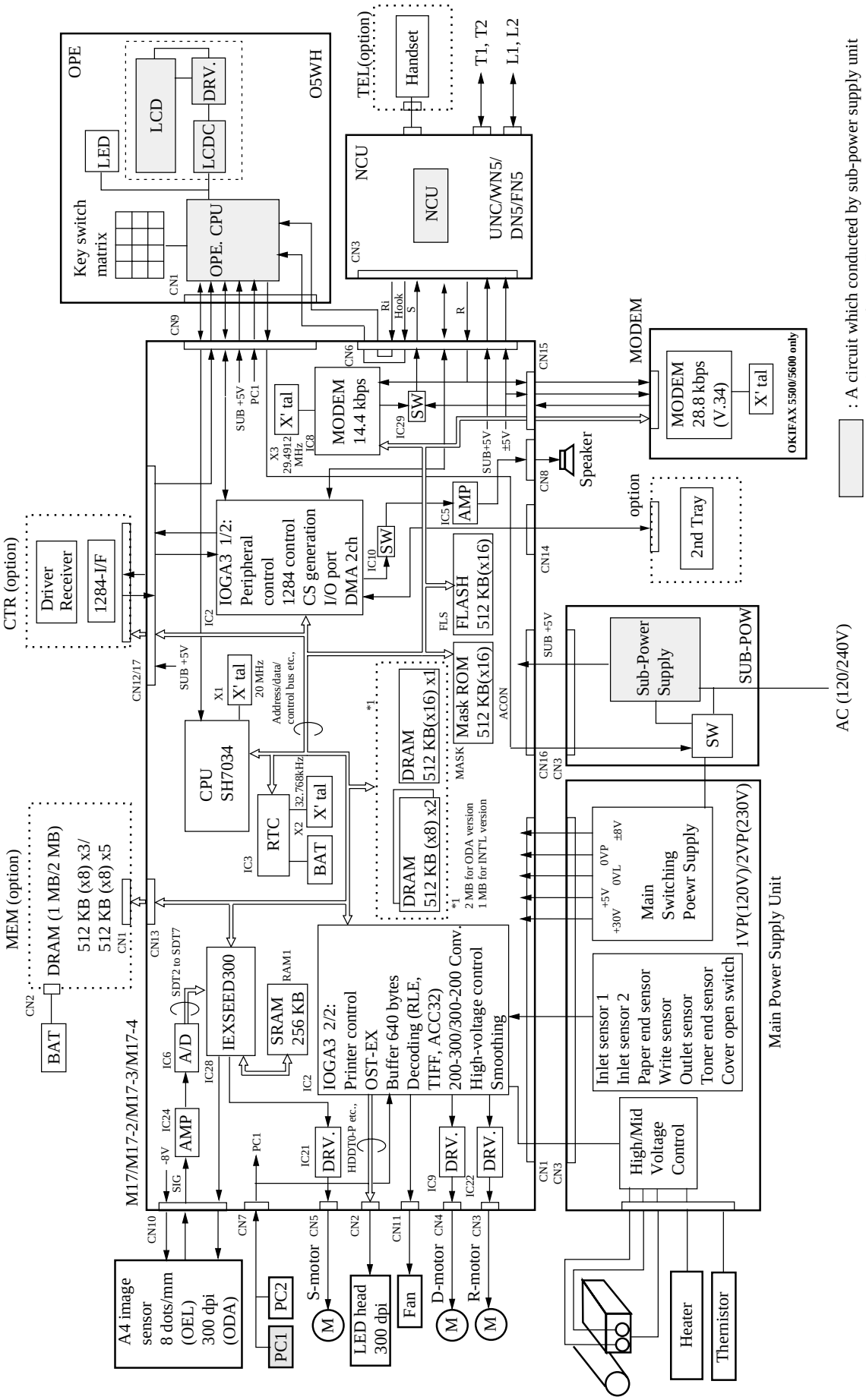

Figure A1.2.2 OKIFAX 5000 Series Block Diagram

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Meaning of abbreviations used in Block Diagram

A/D	:	Analog-to-digital converter
AMP	:	Amplifier
BATT	:	Battery
CNi	:	Connector number i
CPU	:	Central processing unit
D-MOTOR	:	Drum motor
DRV	:	Motor drive
DRAM	:	Dynamic random-access memory
EXSEED	:	Image proccessing gate array
FAN	:	Fan motor
FLASH	:	Flash memory
IOGA 3	:	Input output gate array
PCi	:	Photocoupler number i
POW.UNIT	:	Power supply unit
PSRAM	:	Pseudo-SRAM
R-MOTOR	:	Resist motor
RTC	:	Real time clock
S-MOTOR	:	Send motor
SRAM	:	Static random-access memory
X’tal	:	Crystal oscillator

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A1.2 Function of Each Unit

The section describes the principal functions of the individual units of the OKIOFFICE44/OKIFAX 4100/5000 series electrical sections.

Figure A1.2.1 and A1.2.2 shows the pertinent block diagram.

(1) R44 (OKIOFFICE44/OKIFAX 4100)/(OKIFAX 5500/5600: M17 for ODA/M17-2 for INT'L) (OKIFAX 5200/5300: M17-3 for ODA/M17-4 for INT'L) board

- CPU
  Basic processor
  Scanning control
  Picture processing control
  Printing control
  SIO (Serial input/output) control
- IOGA (Input/output gate array)
  Scanning control
  Printing control
  Peripheral input/output control
- Flash memory (Instead of EP-ROM and SRAM)
  Memory storage for work area.
- DRAM
  Memory storage for ECM operations, memory broadcast, delayed broadcast, etc.
- Back-up battery circuit
- Real-time clock IC
- Audio monitor circuit
- Contact image sensor control
- I EXSEED (For OKIFAX 5000 series)
  Image data processing
- SRAM (For OKIFAX 5000 series)
  Memory storage for image picture data
- Supervision of the following external statuses:
  Presence of document on hopper
  Presence of document at scanning position
- Send motor control
- Fan motor control
- Drum motor control
- Resist motor control
- Modem chip/Modem board (For OKIFAX 5500/5600)
  Modulation and demodulation for V.34 (for OKIFAX 5500/5600)
  Modulation and demodulation for V.33 and V.17
  Modulation and demodulation for V.29 and V.27 ter
  Modulation and demodulation for V.21
  Generation of single-frequency signals for tonal signals
  Detection of single-frequency tonal signals
  Generation of dual time multiple-frequency signals for tone dialing

(2) Operation panel unit: O4W (OKIOFFICE44/OKIFAX 4100)/05W (OKIFAX 5000 series) board

- Supervision of switches on operation panel
- Control of LEDs on operation panel
- Control of LCD on operation panel

  LED : Light-emitting diode
  LCD : Liquid crystal display

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(3) NCU board

UNC5 -------- For US and Canada
WN5 --------- For Denmark, Norway, Sweden, Finland, The Netherlands, ireland, portugal, New Zealand, Australia, Belgium, Spain, Greece and Other countries
DN5 ---------- For Germany, Switzerland and Austria
FN5 ---------- For France and UK

- Conversion of receive data and receive signals to internal signal level
- Conversion of send data and send signals to external signal level
- Generation of dial pulses to telephone line
- Detection of ringing signal
- Detection of busy tone (conjunction with Modem unit)
- Detection of hook up signal
- Interface with telephone handset (option)
- Output of send data and send signals to telephone line
- Input of receive data and receive signals from telephone line

(4) Power supply unit: 048-POW (120V/230V), TLHV/OLHV board for OKIOFFICE44/OKIFAX 4100 and 1VP (120V)/2VP (230V), SUB-POW board for OKIFAX 5000 series

- Conversion of main alternating current to the following direct currents:
  +5V DC power supply
  +8V DC/-8V DC power supply (+8V for OKIFAX 5000 series)
  +30V DC power supply
- Supplying of main alternating current to fuser unit
- Generation of medium voltages +300V, -300V, +400V, -450V and 0V
- Generation of high voltages -1.35 kV, -0.75 kV and +3.5 kV

(5) MEM (memory) board (Option)

- P-SRAM (for OKIFAX 4100)/DRAM (for OKIFAX 5000 series)
  Memory storage for ECM operations, memory broadcast, delayed broadcast, etc.

(6) CTR board (Option)

- Driver circuits

(7) NTIF board (Option)

- Ringer circuit

(8) 10KY board (Option)

- 10-key pad

(9) HOOK board (Option)

- Hook switch circuit

(10) TELU board (Option): For US and Canada

- Speech network circuit
  Basic speech functions included.

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(11) TEL-W2 board (Option): For Sweden, Finland, The Netherlands, Ireland, Portugal, New Zealand, Australia, Belgium, Spain, Greece, Switzerland and Austria.

- Basic speech functions included.
- Separate receive pre-amp with signal output terminal.
- Separate receive power amp input terminal, because it is possible to mix input.
- Balanced input for microphone input to provide immunity to common mode noise.
- MF pre-amp input terminal is possible to mixing input.
- Dial pulse waveform improvement circuit included.
- Manual pad function included.
- The transmit, receive, and DTMF amplifiers are provided with AGC according to the line current.

(12) TEL-W1 board (Option): For UK, Norway, Denmark and Italy.

- Basic speech functions included.
- Separate receive pre-amp with signal output terminal.
- Separate receive power amp input terminal, because it is possible to mix input.
- Balanced input for microphone input to provide immunity to common mode noise.
- MF pre-amp input terminal is possible to mixing input.
- Dial pulse waveform improvement circuit included.
- Manual pad function included.
- The transmit, receive, and DTMF amplifiers are provided with AGC according to the line current.
- Dialing functions included.

(13) TEL-W2D board (Option): For Germany

- Basic speech functions included.
- Separate receive pre-amp with signal output terminal.
- Separate receive power amp input terminal, because it is possible to mix input.
- Balanced input for microphone input to provide immunity to common mode noise.
- MF pre-amp input terminal is possible to mixing input.
- Dial pulse waveform improvement circuit included.
- Manual pad function included.
- The transmit, receive, and DTMF amplifiers are provided with AGC according to the line current.

(14) TQSB board (option)

Second paper cassette unit for OKIFAX 5000 series.

- MOS-CPU
- Motor control

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A2.1 Explanation of Signal Flow for OKIOFFICE44/OKIFAX 4100/5000 Series

Note : Regarding the difference of the signal flow between OKIFAX 4100 and OKIFAX 5000 series, since one-line scanning processing speed of OKIFAX 5000 series is faster in comparison with OKIOFFICE 44/OKIFAX 4100, to the circuit diagram of OKIFAX 5000 series has been added the EXSEED (image processing LSI) and SRAM (dark/light level correction data). Otherwise, the signal flow is almost the same as in OKIOFFICE 44/OKIFAX 4100.

(1) Copy Mode

- **Copy mode for OKIOFFICE 44/OKIFAX 4100**
  Figure A2.1.1 shows the picture signal route in local copy mode for OKIOFFICE 44/OKIFAX 4100

  One-line picture data is transferred to A/D converter (analog/digital converter) from the scanning unit (CIS: contact image sensor) as an analog data. After conversion from analog data to 6-bit digital data by A/D converter, the picture data is sent to DRAM (line memory) via IOGA by DMA (Direct Memory Access). Then the picture data is sent to IOGA again. Here, the picture data undergoes various kinds of picture processings (IOGA and CPU), and is converted to two-level binary data (black and white). The one-line binary data from IOGA is stored into DRAMs (page memory). When the data for one page has been stored in the DRAMs, the data is read out from the DRAMs and sent to IOGA. The data is converted into a serial data by the picture control of IOGA and transferred to the LED print head for printing as HDATA 0/1. Writing of data into the page memory is also possible during the printing operation.

- **Copy mode for OKIFAX 5000 series**
  Figure A2.2.1 shows the picture signal route in local copy mode for OKIFAX 5000 series

  One-line picture data is transferred to A/D converter (analog/digital) via operational amplifier from the scanning unit (CIS: contact image sensor) as an analog data. After conversion from analog data to 6-bit digital data by A/D converter, the picture data is sent to EXSEED (image processing LSI) and SRAM. Here, the picture data undergoes various kinds of picture processings (EXSEED and SRAM), converted to two-level binary data (black and white) and then sent to IOGA (scanning control). The one-line binary picture data from IOGA is stored into DRAM. When the data for one page has been stored in the DRAM, the data is read out from the DRAM and sent to IOGA. The data is converted into a serial data by the picture control of IOGA and transferred to the LED print head for printing as HDATA. Writing of data into the page memory is also possible during the printing operation.

(2) G3 Send Mode

Figure A2.1.2 (For OKIOFFICE 44/OKIFAX 4100)/Figure A2.2.2 (For OKIFAX 5000 series) show the G3 send picture signal route

In the G3 mode, the data transfer route from the scan unit up to the DRAM is the same as in the copy mode described in (1).

The picture data for one-line is transferred from DRAM to CPU. The CPU performs the picture data processing (encode) for this picture data (FILLER, fill bits are inserted etc.) and again stores into the DRAM. The stored encoded data is output from DRAM to the MODEM under the control of CPU. After modulation, the picture signal “S” is sent to the NCU board as the transmission data. The transmission data “S” goes through the amplifier and is sent to the telephone line L1 and L2 via the transformer T1 as high speed signal.

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(3) G3 receive Mode

Figure A2.1.3 (For OKIOFFICE 44/OKIFAX 4100)/Figure A2.2.3 (For OKIFAX 5000 series) show the G3 receive picture signal route

In the G3 mode, the high-speed picture signal arriving from the telephone line at L1 and L2 of NCU passes through the transformer T1 and the amplifier and is input to the MODEM as “R” signal. After demodulation by modem, the picture data is sent to CPU. The CPU performs the picture data processing (decode) for this picture data and stores into the DRAM. Then, the stored picture data is again written into DRAM (as a page memory) by the picture processing control of CPU. When the data for one page has been stored in the DRAM/P-SRAM, the data is read out from the DRAM and sent to IOGA. The picture data is converted into a signal data by the printer control of IOGA and transferred to the LED print head for printing as HDATA 0/1.

(4) 300bps Send Mode

Figure A2.1.4 (For OKIOFFICE 44/OKIFAX 4100)/Figure A2.2.4 (For OKIFAX 5000 series) show 300bps send protocol signal route

In G3 communication, this is the route of the procedural control signals (pre-message, post-message phases etc.) at 300bps.

The protocol send data is read into DRAM in the sequence the contents of varrious data stored in the FLASH memory area in advance under the control of CPU. The contents of the frame has been edited on the DRAM by CPU and sent to MODEM via CPU. HDLC (high level data link control) frame of the data is structured by the modem and converted to serial data in synchrony with the modem’s DCLK (data clock). After modulation, the protocol signal is output from “S” of the modem and sent to the telephone line L1 and L2 via the transformer T1 of NCU.

(5) 300bps Receive Mode

Figure A2.1.5 (For OKIOFFICE 44/OKIFAX 4100)/Figure A2.2.5 (For OKIFAX 5000 series) show 300bps receive protocol signal route.

In G3 communication, this is the route of the procedural control signals (pre-message, post-message phases etc.) at 300bps.

The 300bps modulated signals received via the telephone line L1 and L2 of the NCU are sent from pin R to Pin RXA1 of the modem. After demodulation by the modem, the demodulated digital signals are sent to the CPU via the data bus from the modem. The data is read and decoded by the CPU and written into the DRAM. The written data is interpreted according to bit assigment of the binary procedural signals in the ITU recommendations. The successive modes of communication (for example, line density,encoding scheme, etc.) are determind.

(6) Report Printing

This signal route describes the printing route of character data used to print Activity Report, Message Confirmation Report, etc.

The report data is read into DRAM in the sequence the contents of data stored in the FLASH memory in advance under the control of CPU. The contents of data is edited on the DRAM. The data is read out from the DRAM and sent to IOGA. The data is converted into a serial data by the picture control of IOGA and transferred to the LED print head for printing as HDATA 0/1.

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(7) Memory Transmission

This signal route describes the memory transmission used in broadcast mode, delayed broadcast mode, etc.

The stored encoded data undergoes buffering, passes through CPU, MODEM and NCU and then sent out to the telephone line.

(8) Memory Reception

This signal route describes the memory reception used in no-paper mode, no-toner reception, confidential mode, etc.

The encoded data received by the same route of (3) G3 receive mode undergoes the picture data processing and stored into memory (DRAM) as such. In case of printing, When the data for one page has been stored in the memory (DRAM), the data is read out from the memory and sent to IOGA. The printed data is converted into a serial data by the printer control of IOGA and transferred to the LED print head for printing as HDATA 0/1.

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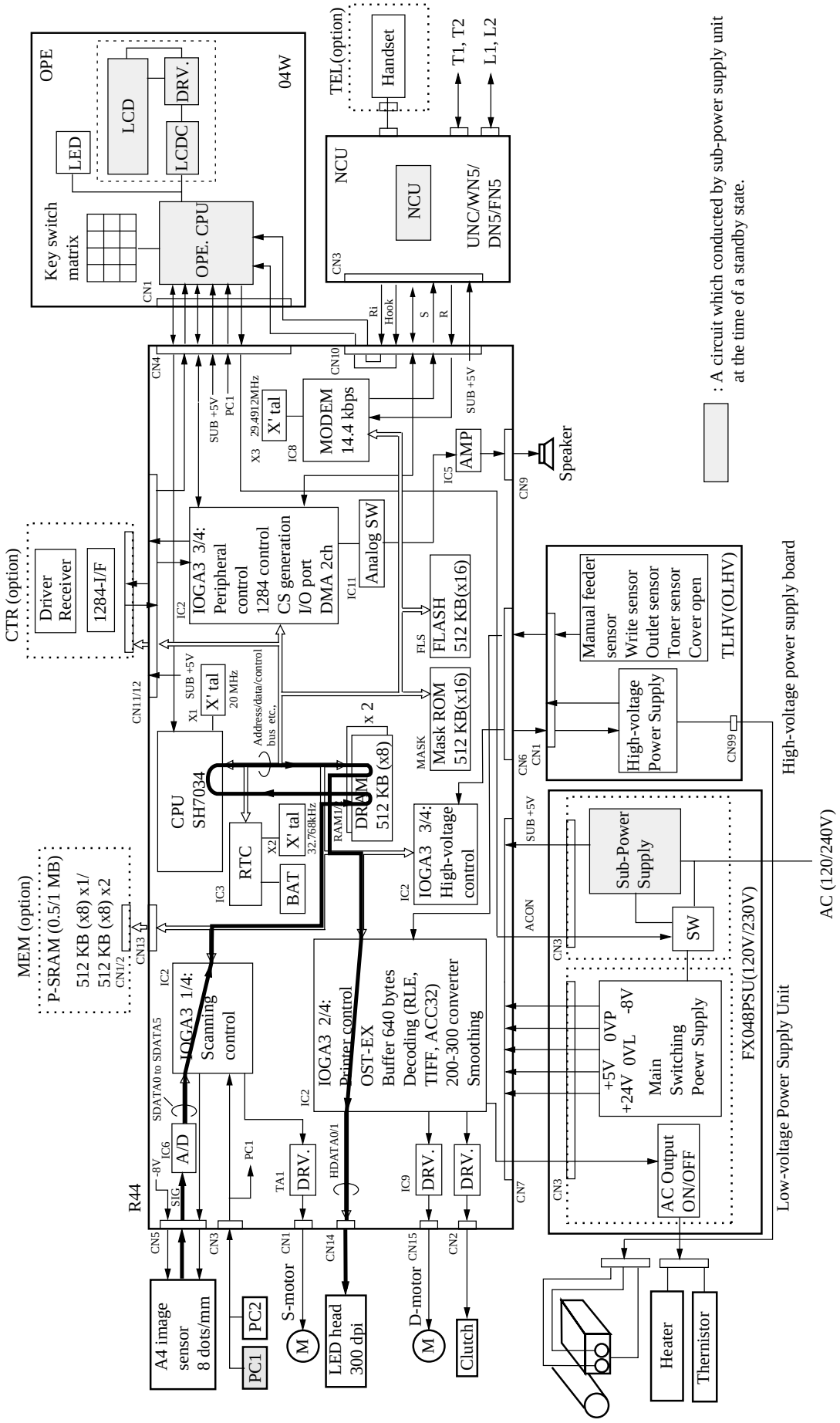

Figure A2.1.1 OKIOFFICE 44/OKIFAX 4100 Copy Picture Signal

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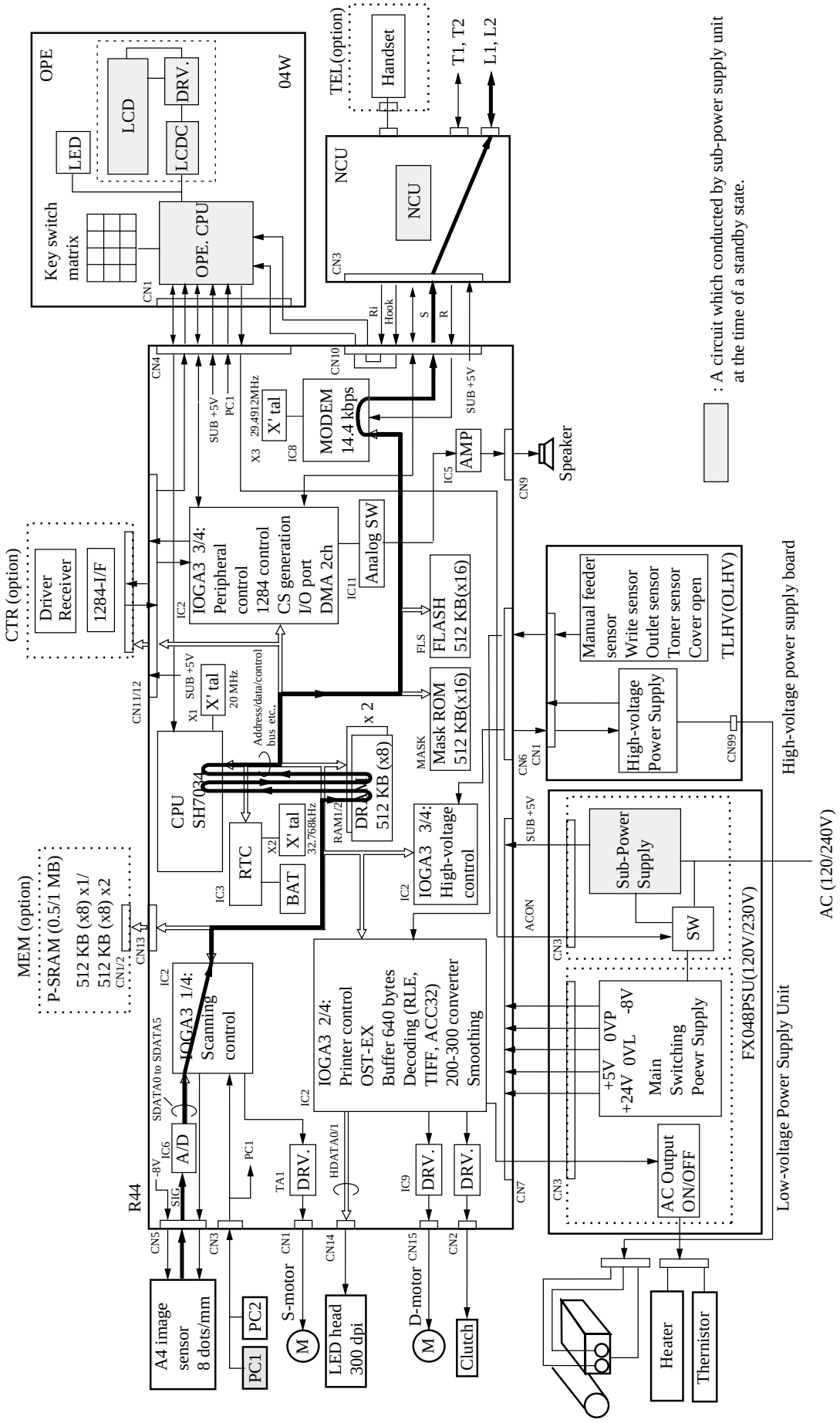

Figure A2.1.2 OKIOFFICE 44/OKIFAX 4100 G3 Send Picture Signal

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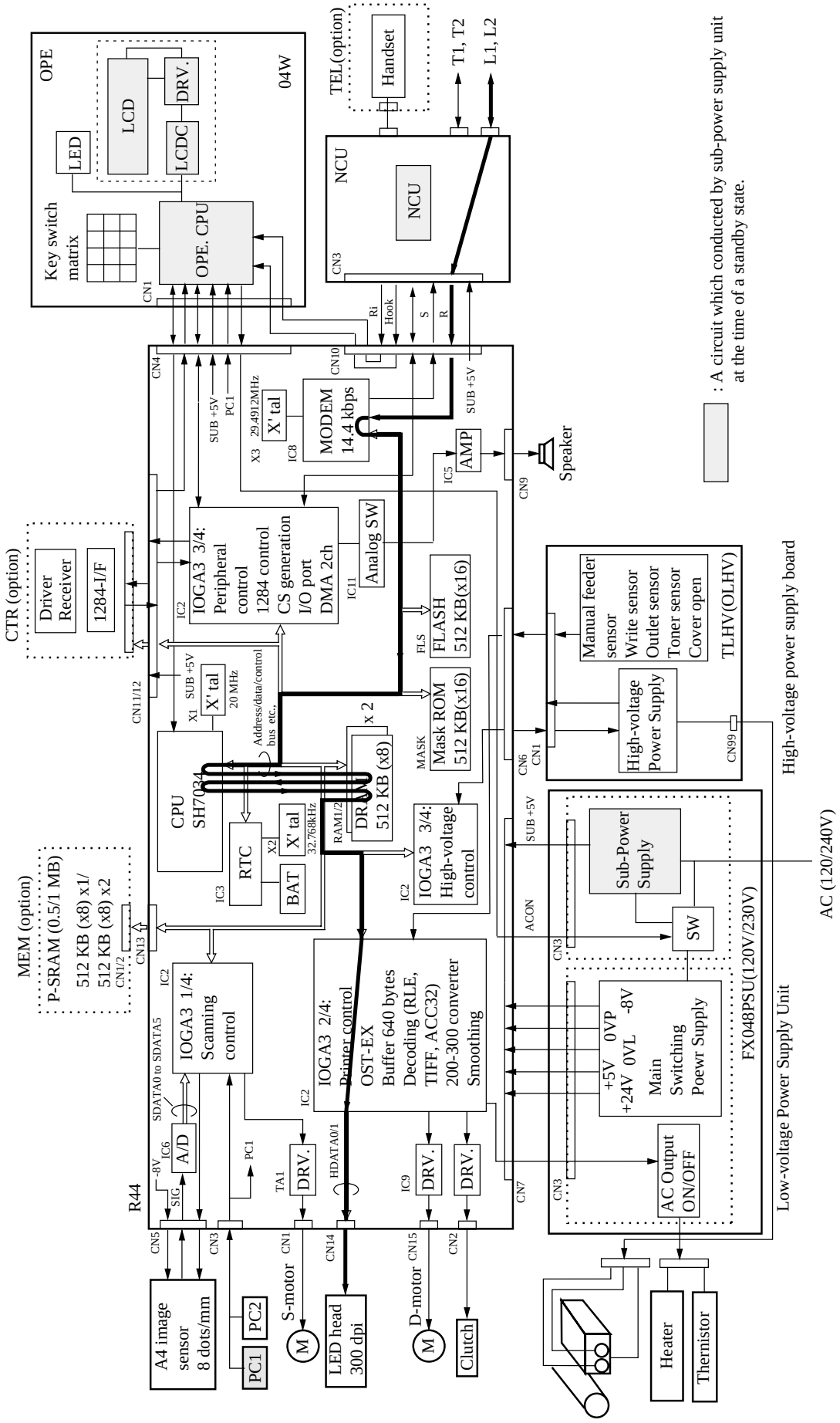

Figure A2.1.3 OKIOFFICE 44/OKIFAX 4100 G3 Receive Picture Signal

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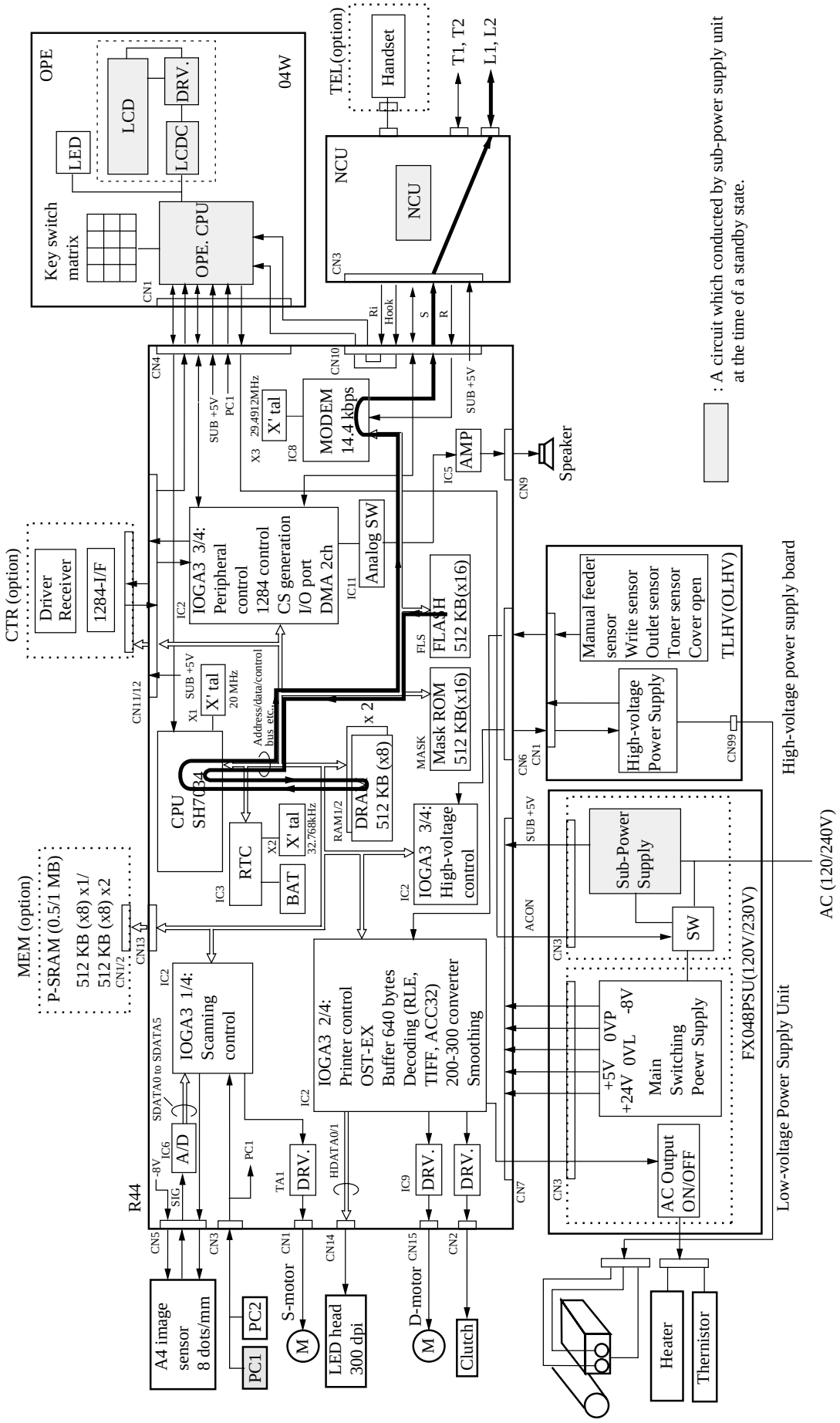

Figure A2.1.4 OKIOFFICE 44/OKIFAX 4100 300 dps Send Signal

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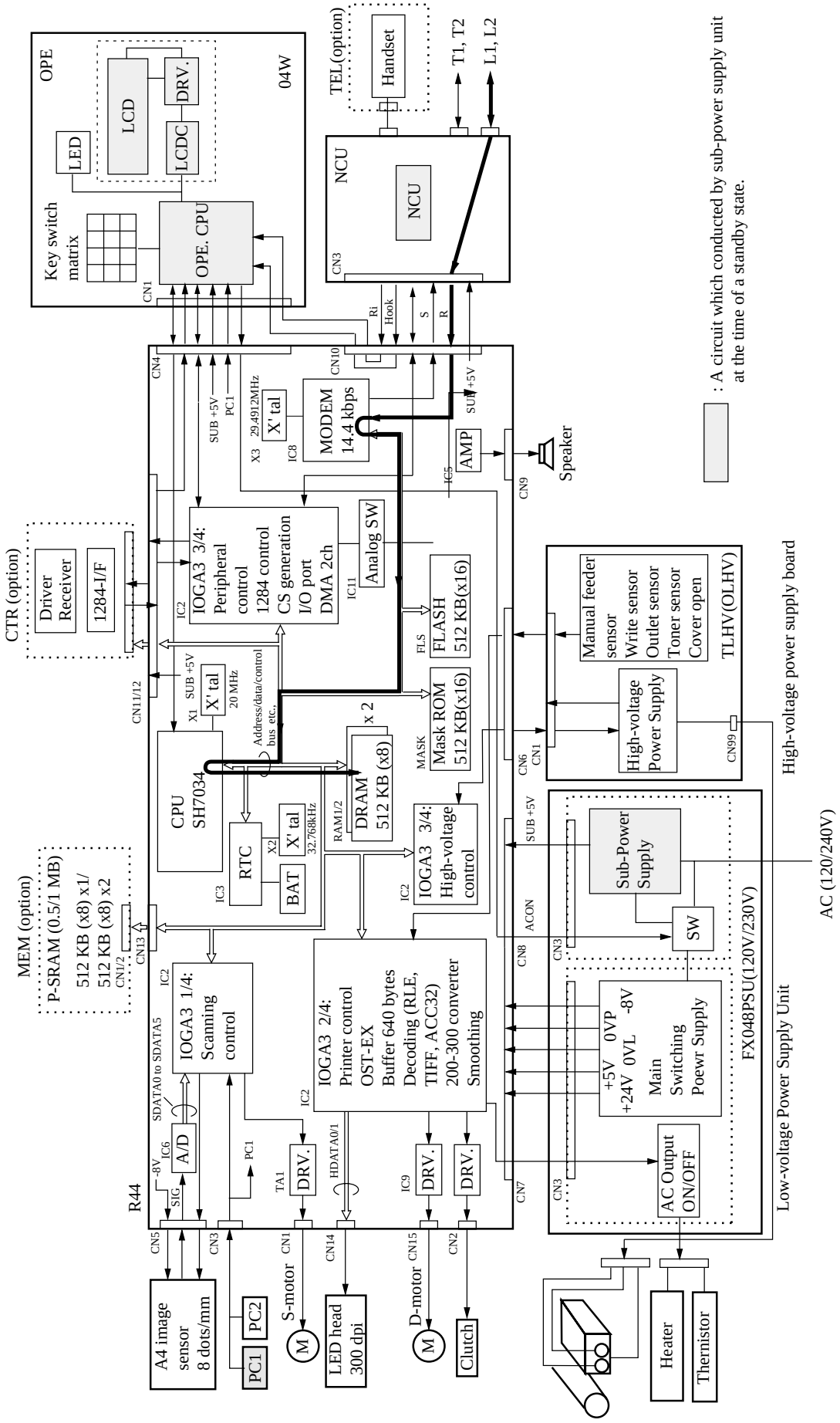

Figure A2.1.5 OKIOFFICE 44/OKIFAX 4100 300 bps Receive Signal

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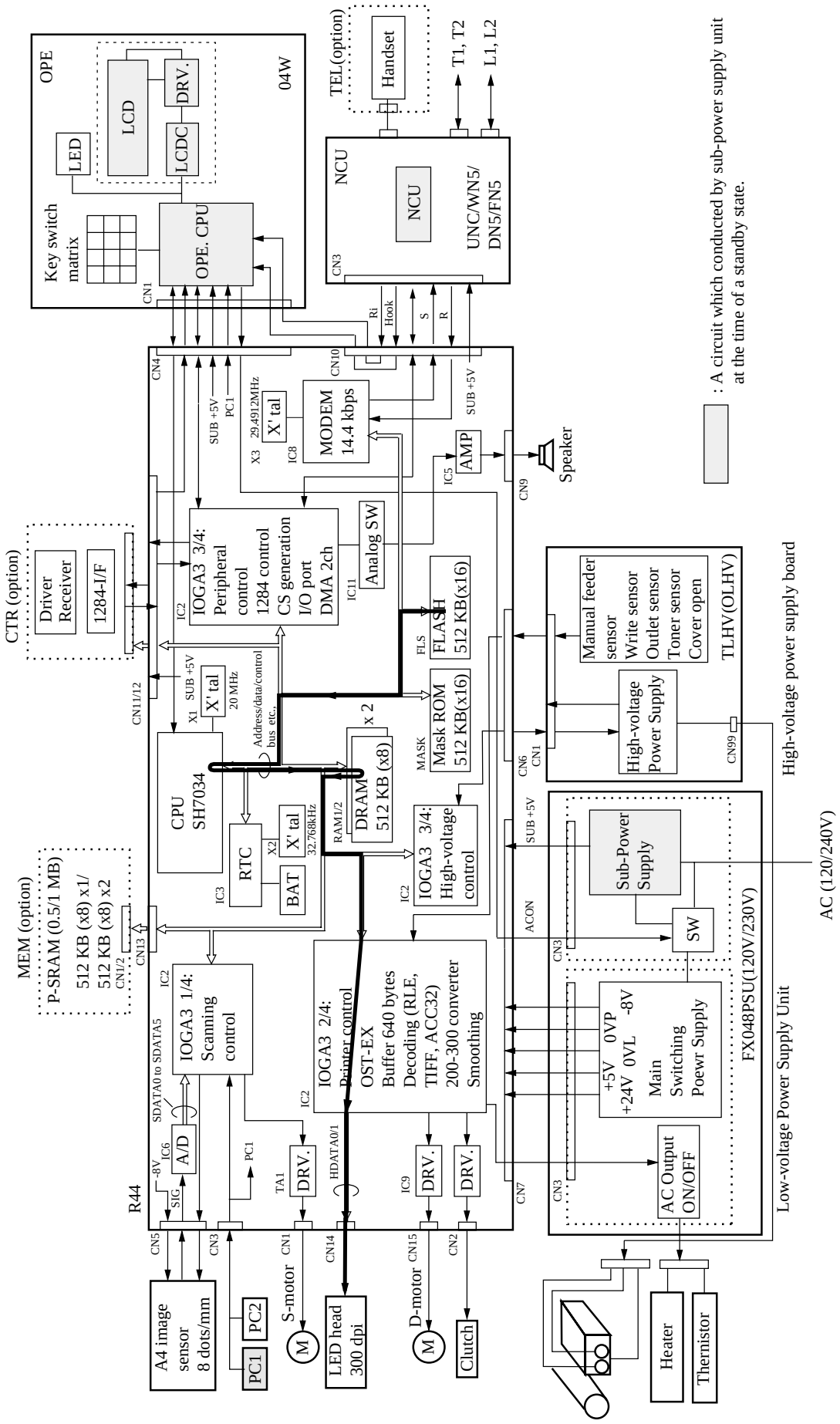

Figure A2.1.6 OKIOFFICE 44/OKIFAX 4100 Report Print Signal

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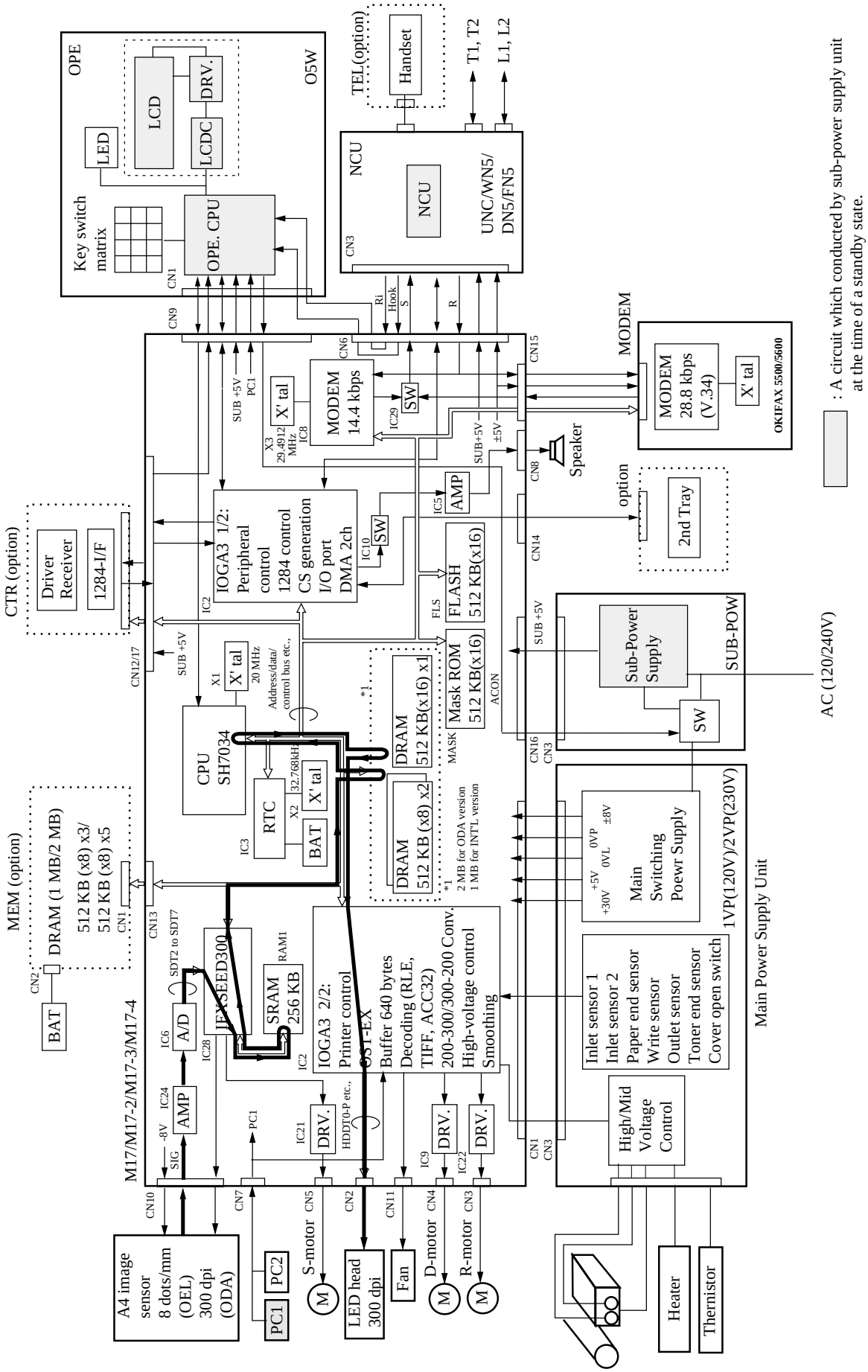

Figure A2.2.1 OKIFAX 5000 Series Copy Picture Signal

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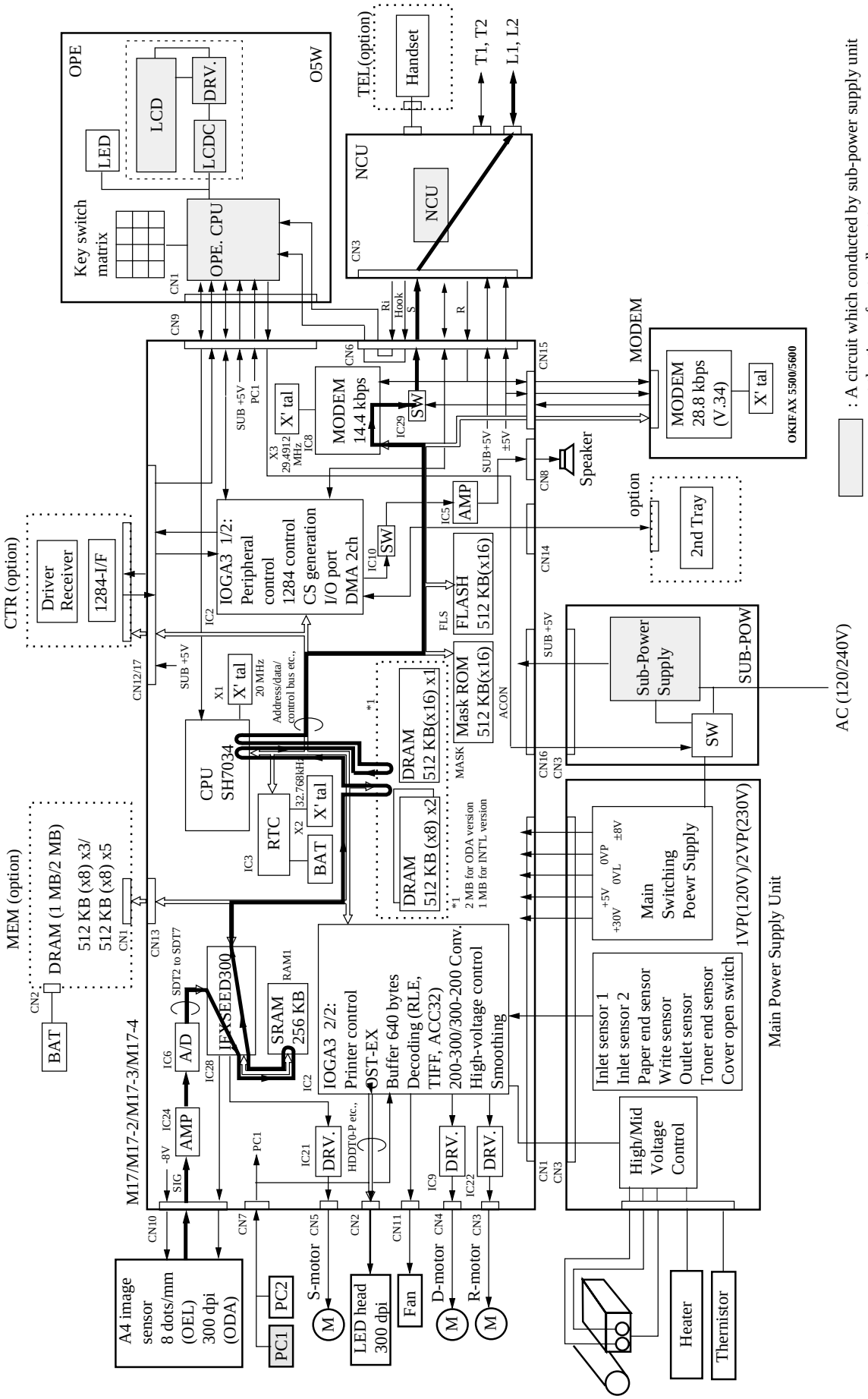

: A circuit which conducted by sub-power supply unit at the time of a standby state.

Figure A2.2.2 OKIFAX 5000 Series G3 Send Picture Signal

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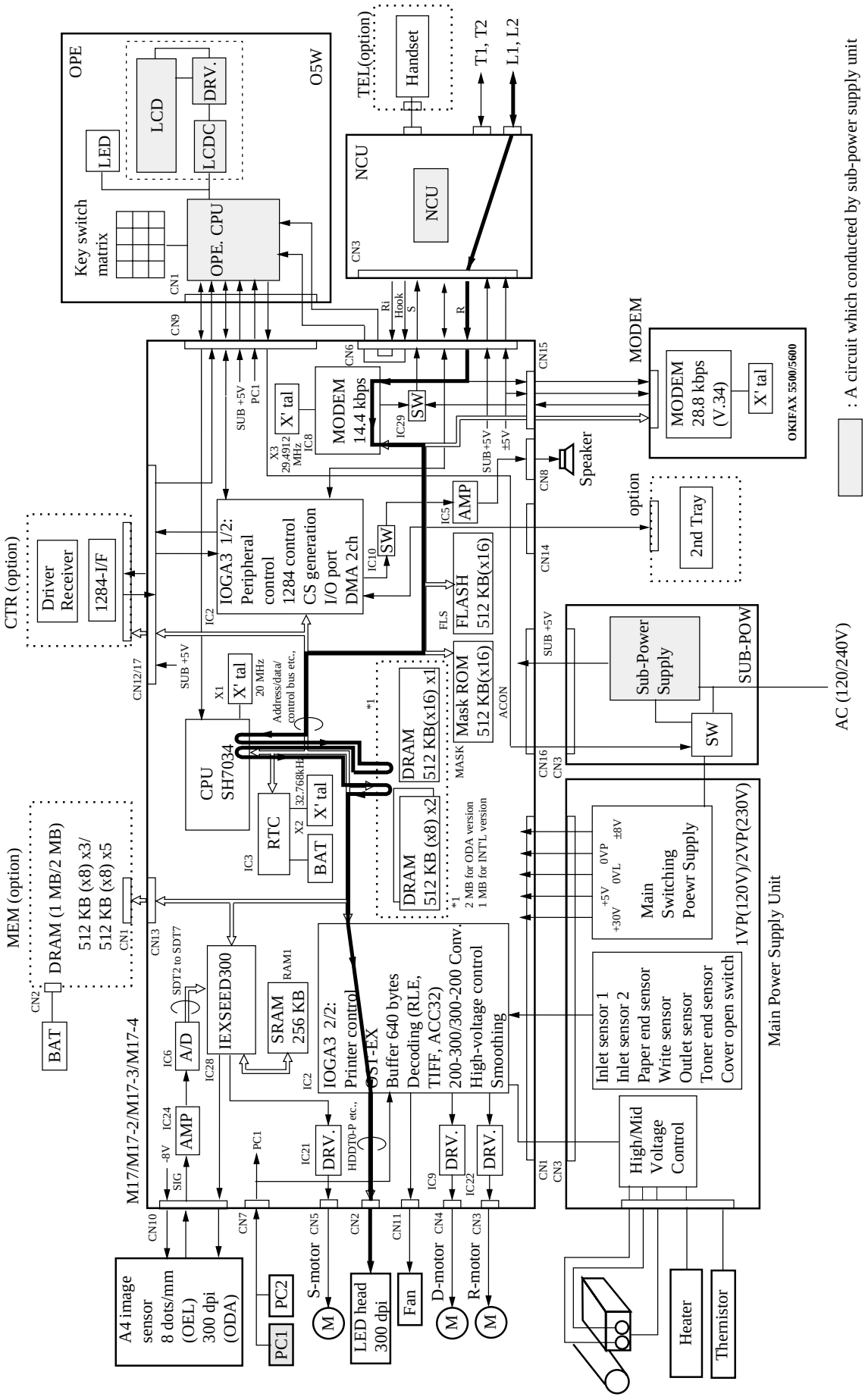

Figure A2.2.3 OKIFAX 5000 Series G3 Receive Picture Signal

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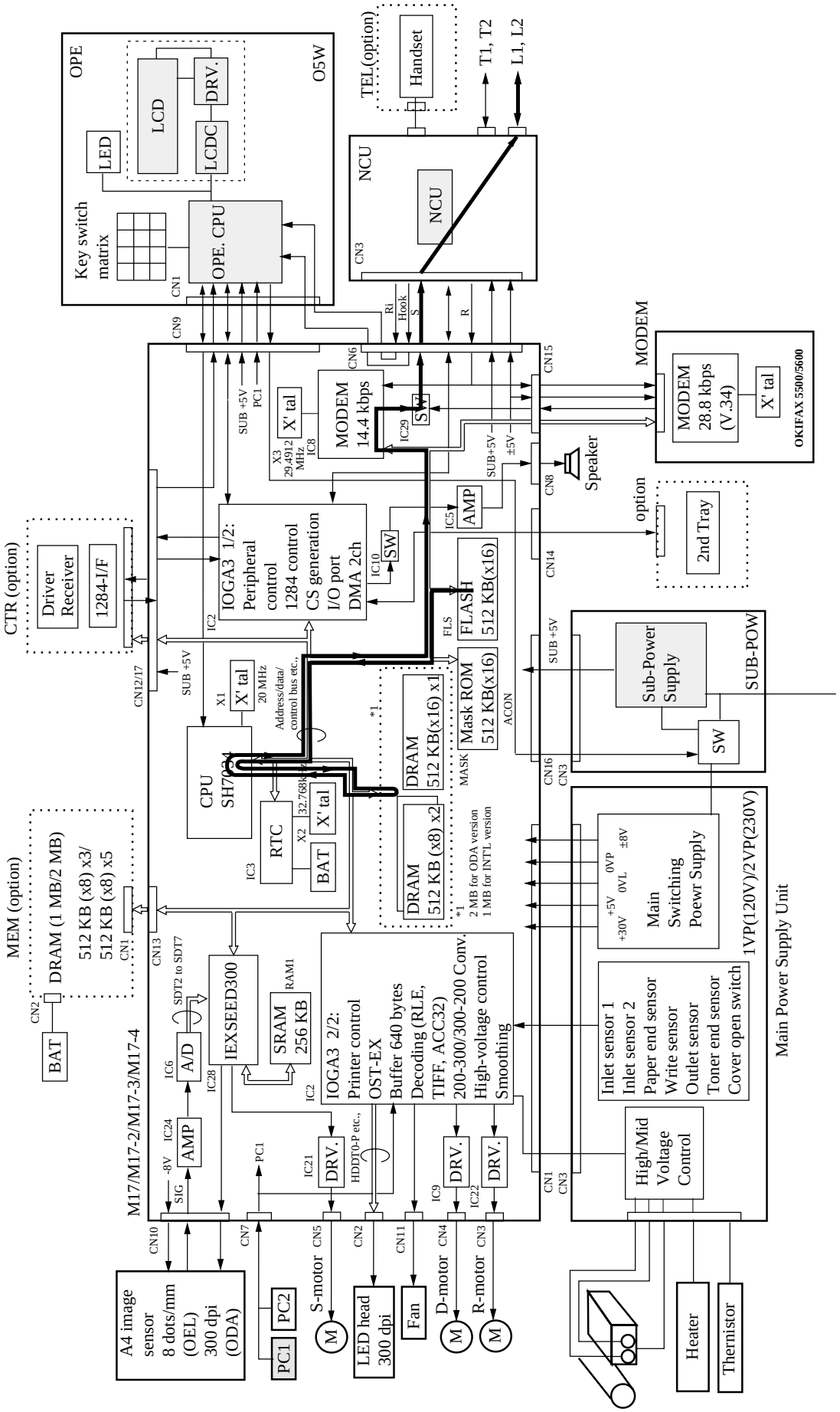

Figure A2.2.4 OKIFAX 5000 Series 300 bps Send Signal

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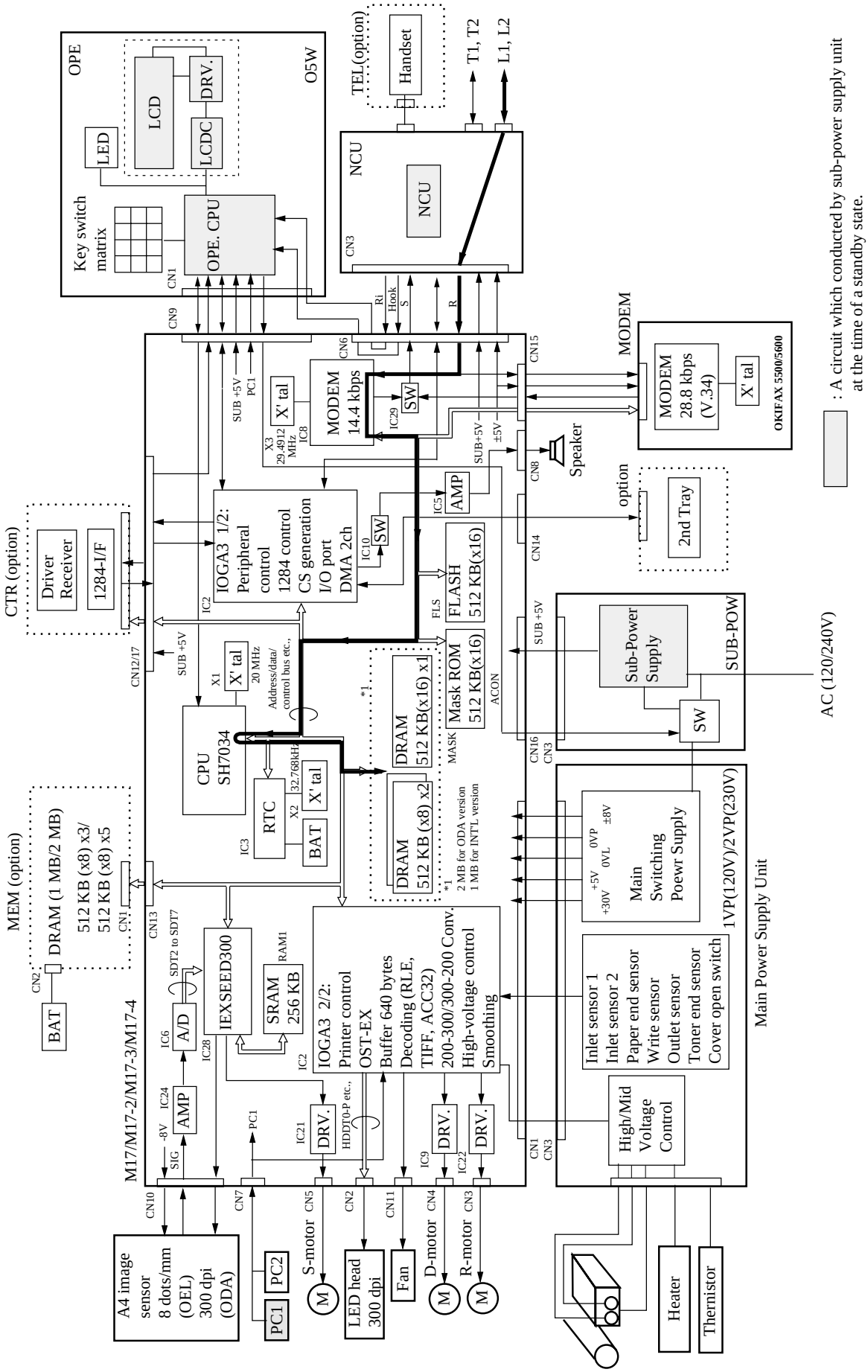

Figure A2.2.5 OKIFAX 5000 Series 300 bps Receive Signal

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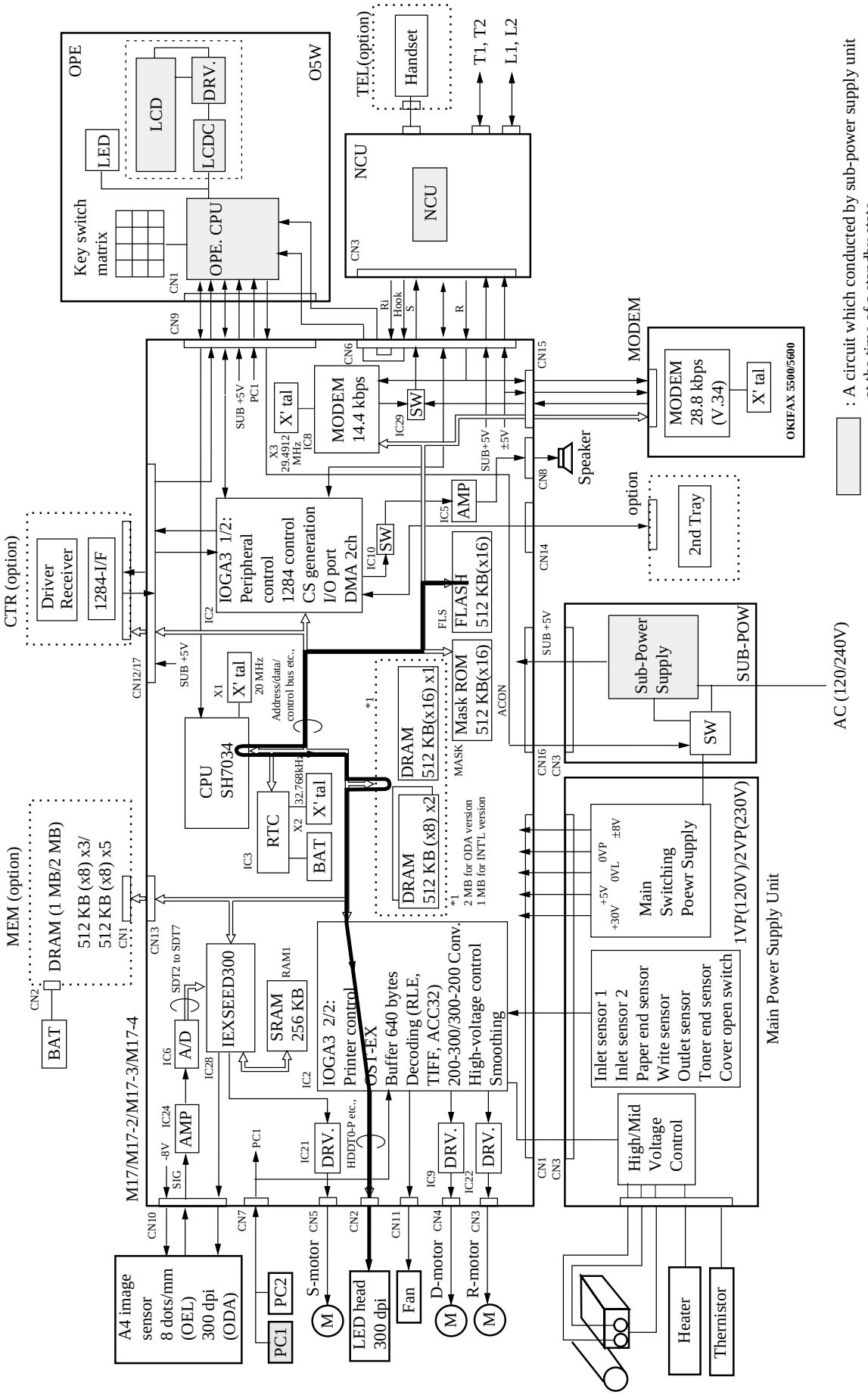

: A circuit which conducted by sub-power supply unit at the time of a standby state.

Figure A2.2.6 OKIFAX 5000 Series Report Pritn Signal

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A3.1 R44 Circuit Diagram (for OKIOFFICE 44/OKIFAX 4100)

A3.1.1 R44 Circuit Diagram (Page 1/12)

1. Block diagram

The circuit diagram shown on page 1/12 consists of the CPU, crystal oscillator circuit and reset signal generator.

Figure A3.1.1 shows the block diagram of CPU and the peripheral circuits.

2. Function

1) Crystal oscillator circuit

X1 is a 20 MHz crystal ocillator. The output wave is fed to the CPU through pin 73 and 74. CLK (20 MHz) signal output from pin 71 is used as the system clock and output to IC2 (IOGA3: input/output gate array).

2) CPU

CPU controls the following functions in addition to the basic processor.

- DMA (Direct Memory Access) control
- Interrupt procedure control
- A/D converter
- Bus state control
- Programmable pattern control
- 16 bit integrated timer pulse unit (ITU)
- Timing pattern control (TPC)
- Serial communication interface (SCI)

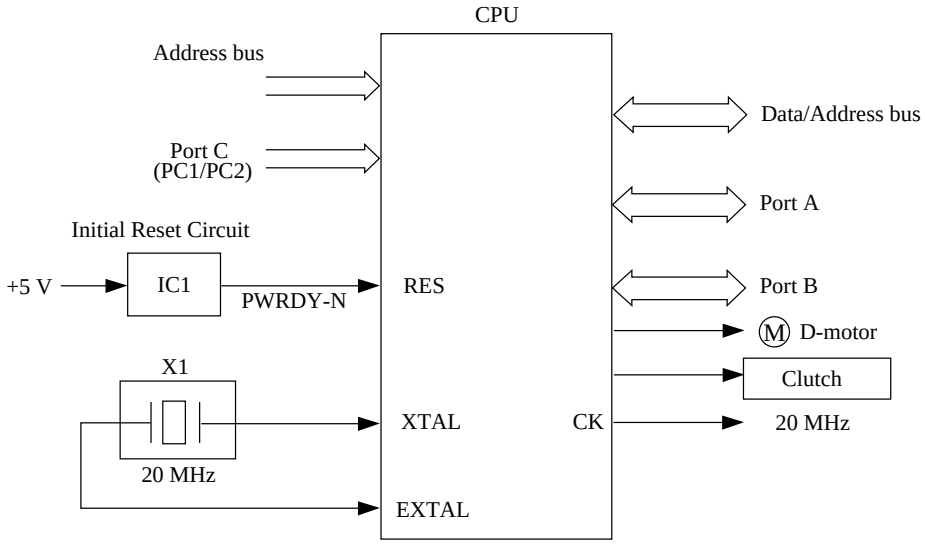

Figure A3.1.1 Related Signals of CPU

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A3.1.2 R44 Circuit Diagram (Page 2/12)

1. Block diagram

The circuit diagram shown on page 2/12 consists of an input/output gate array IC2 (IOGA3).

Figure A3.1.2 shows the related signals of IOGA3.

2. Functions

IOGA3 is newly developed LSI for scanning and printing control of OKIOFFICE 44/OKIFAX 4100.
IOGA3 contains the following functions:

- Scanning sensor control
- Send motor control
- Various image data processing control for scanning data
- Strobe signals control for LED head
- Smoothing control for printing data
- Interface of the peripheral LSI, optional memory and CPU

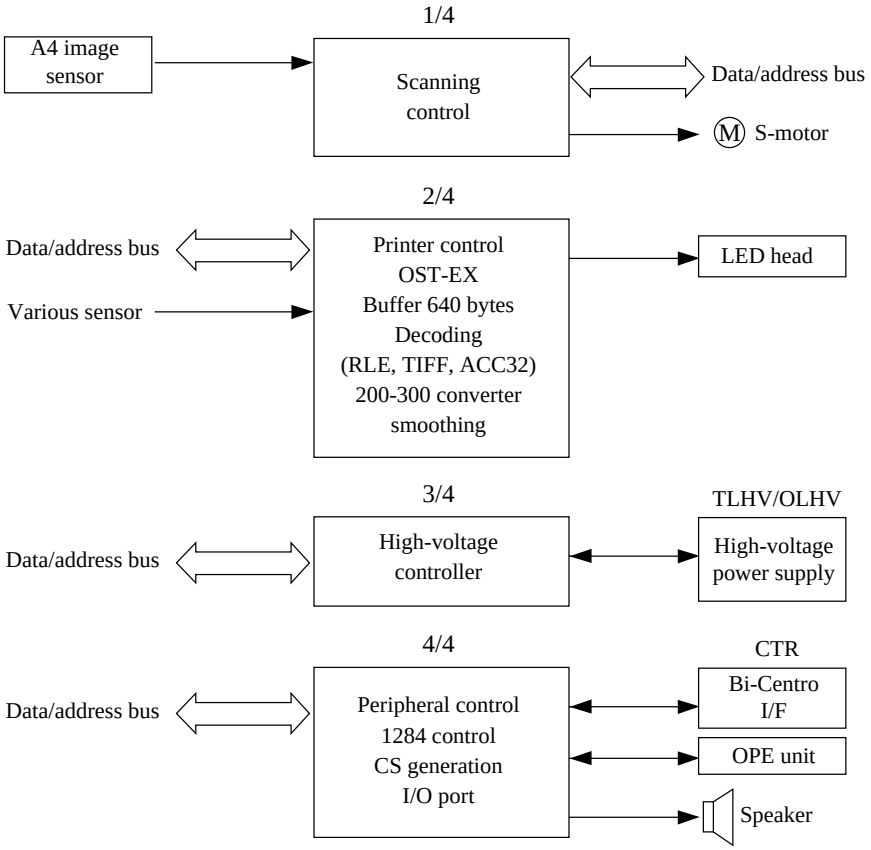

Figure A3.1.2 Related Signals of IOGA

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A3.1.3 R44 Circuit Diagram (Page 3/12)

1. Block diagram

The circuit diagram shown on page 3/12 consists of Flash memory, Mask ROM, DRAM, Real time clock IC and Back up battery circuit.

Figure A3.1.3 shows the block diagram of Flash memory, Mask ROM, DRAM and Real time clock.

2. Function

1) Flash memory (FLS1)

Flash memory (electrically erasable and programmable device) is used for the main software program, which is stored in EP-ROM of the current OKIFAX. Other than the function of EP-ROM, Flash memory is also used for the user data area instead of SRAM chips.

- 512 KByte Flash memory x 1 (FLS)
  Used for work area, report recording etc.

2) Mask ROM

3) DRAM

512 KByte DRAM x 2 (RAM1 and RAM2)
- Used as follows:
  Picture memory for the ECM send/receive mode.
  Picture memory for the memory transmission mode.
  Picture memory for the retransmission mode.
  Picture memory for the reception in memory.
  Editing for report printing.

4) Back-up battery circuit

The non-rechargable lithium battery supplies voltage to a real-time clock IC at AC main interruption.

5) Real-time clock IC (IC3)

IC3 is a real-time clock IC used as a timepiece to display the data and time in year, month, day, hour, minute, and second units. Its input/output signals are the 4-bit data bus (AD00 - AD03), 4-bit address bus (A01 - A04) and the control signals, RTCCS, MDMRD-N and MDWR-N which perform a CPU-controlled read operation (M/D/Y H:M, Data read) and write operation (M/D/Y H:M, Data setting).

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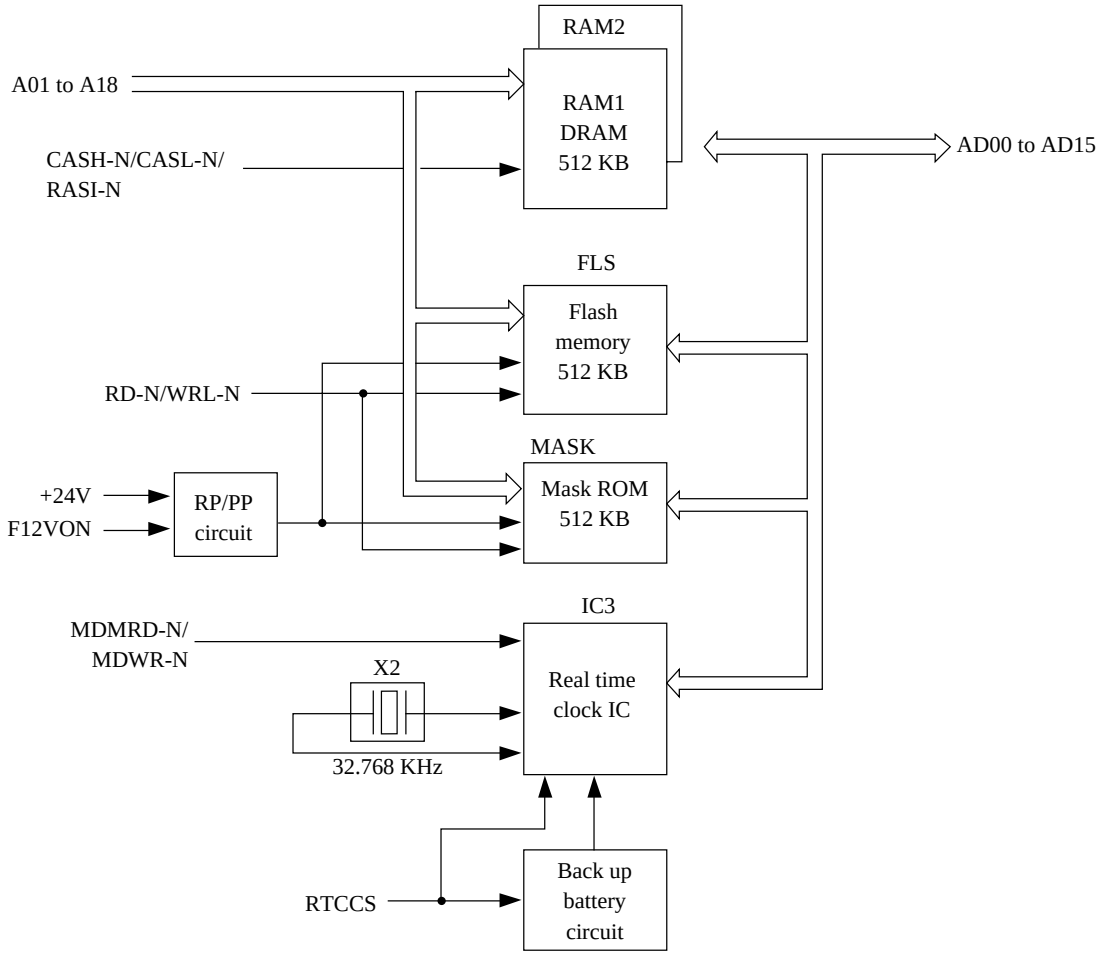

Figure A3.1.3 Block Diagram of DRAM/Flash Memory/Mask ROM and Real-time Clock IC

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A3.1.4 R44 Circuit Diagram (Page 4/12)

1. Block diagram

The audio monitor circuit on page 4/12 that consists of IC11 (analog switch IC) and IC5 (amplifier) generates the following audio monitor.

- Line monitoring
- Buzzer signals

Figure A3.1.4 shows the block diagram of audio monitor circuit.

2. Function

1) Line monitoring

Send and receive signals are input from the transformer on the NCU board to this circuit as a R signal and the signal power is input to the IC11. The IC11 adjusts the monitor volume by MONC0, MONC1 and MONC2 signal under the control of IOGA3. Output (high and low) from IC11 passes through the amplifier and is fed to the speaker as a SP signal.

* MONC0/MONC1/MONC2 signal: Volume control signal.

Note: In case of transmission mode, the monitor will be available during dialing, but the monitor will be switched off automatically after the elapse of specified time (about 5 sec).

2) Buzzer control

Alarm and other signals are input from CPU to this circuit as BZ signals. The various buzzer signals are sounded under the control of CPU.

A3.1.5 R44 Circuit Diagram (Page 5/12)

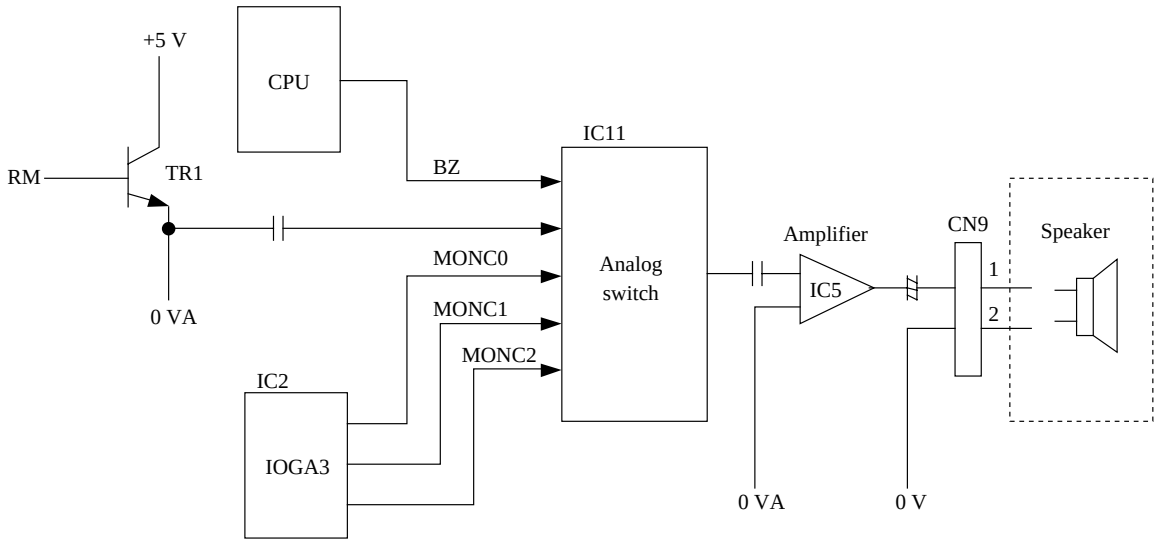

Figure A3.1.4 Block Diagram of Audio Monitor Circuit

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1. Block diagram

The circuit diagram shown on page 5/12 consists of the following functions:

- IC6 (A/D converter)
- 30 V/24 V conversion circuit
- Connector CN5 that provides an interface between R44 board and CIS (contact image sensor).

Figure A3.1.5 shows the related signals and block diagram of CIS.

2. Function

One-line picture data is read in the sequence from the scanning unit (CIS) as SIG signal (analog data) to A/D converter (analog/digital converter) of IC6. After conversion from analog data to 6-bit digital signal (SDATA0 - SDATA5) under the control of IC6, this picture data is sent to IOGA3 (input/output gate array). Here, the picture data undergoes various kinds of picture processings.

Sensor interface signal output from IOGA3

- LEDON : LED on/off control signal
- SNSCLK : Scanning sensor drive clock (714.286 kHz)
- MISP : Scanning synchronous signal (5 msec)
- ADCLK : Sampling clock for A/D converter (714.286 kHz)

A3.1.6 R44 Circuit Diagram (Page 6/12)

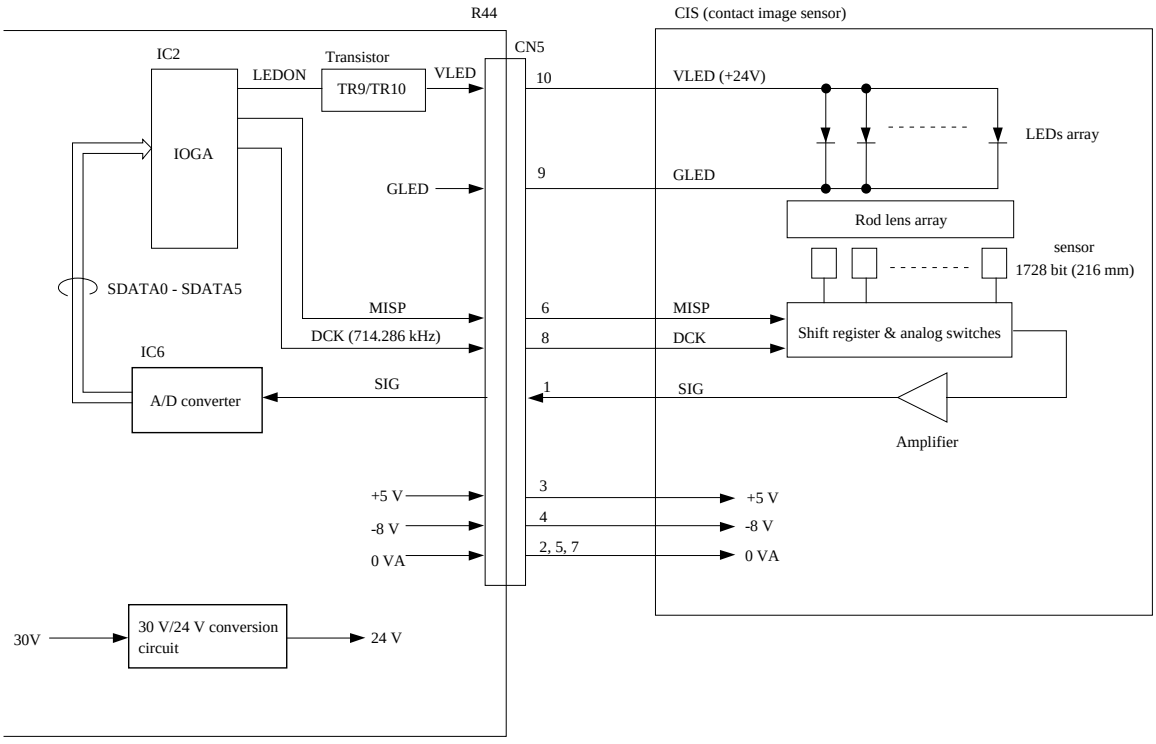

Figure A3.1.5 Related Signals and Block Diagram of CIS (contact image sensor)

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1. Block diagram

The circuit diagram shown on page 6/12 consists of Modem (14.4 kbps).

Modem consists the following functions:

- Modulation/demodulation
  Modulation type:
  1) ITU-T Rec. V17 (14400/12000/9600/7200 bps) for G3 picture data.
  2) ITU-T Rec. V29 (9600/7200 bps) for G3 picture data.
  3) ITU-T Rec. V27 ter (4800/2400 bps) for G3 picture data.
  4) ITU-T Rec. V21 channel 2 (300 bps) for binary signals defined in ITU-T Rec. T.30.

- Automatic adaptive equalizer for G3 receive data with 300 bps data excluded.
- Generation of signal tones
- PB tone (multi-frequency tone) generation
- Detection of single tones
- D/A converter for send data (TX)
- A/D converter for receive data (RX)
- Amplitude equalizer for RX
- Selectable attenuation for TX
- Automatic gain control

Figure A3.1.6 shows the related signals of Modem.

A3.1.7 R44 Circuit Diagram (Page 7/12)

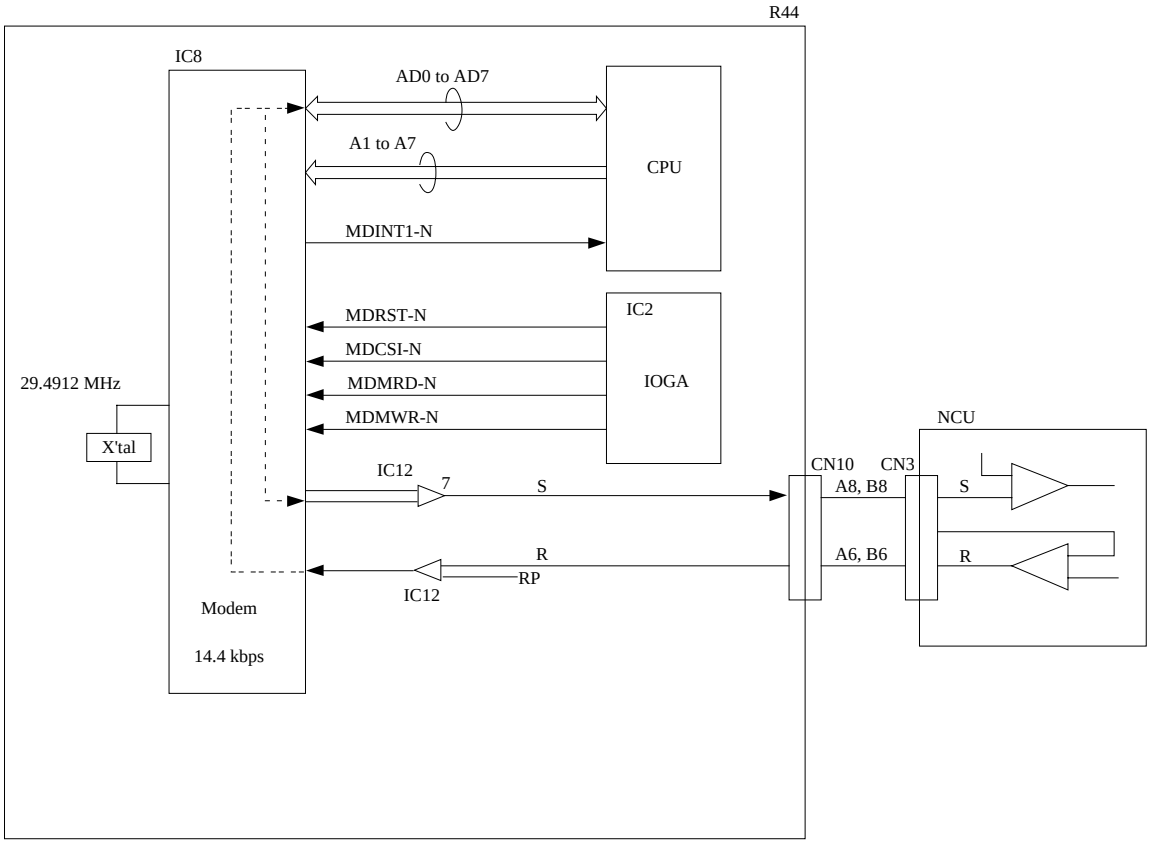

Figure A3.1.6 Related Signals of Modem

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1. Block diagram

The circuit diagram shown on page 7/12 consists of connector CN14 that provides an interface between R44 board and LED print head.

Figure A3.1.7 shows the related signals and block diagram of LED print head.

2. Function

Data of 1664 LEDs on the LED print head is loaded into the shift registers by the HCLCK (1.0 MHz) signal. After the 1664 bit (208 mm) data is loaded in the shift registers, it is then loaded in the latch circuit by the HLATCH signal. The turning -on and off of the LEDs are controlled by STRB1-N to STRB4-N signals.

LED head interface signals output from IOGA1

- HDATA 0 : Print data i.e., data to be printed
- HCLCK : Transfer clock for print data (4.0 MHz)
- HLATCH : Latch signal for print data
- STRB1-N to STRB4-N : LED head strobe signals

A3.1.8 R44 Circuit Diagram (Page 8/12)

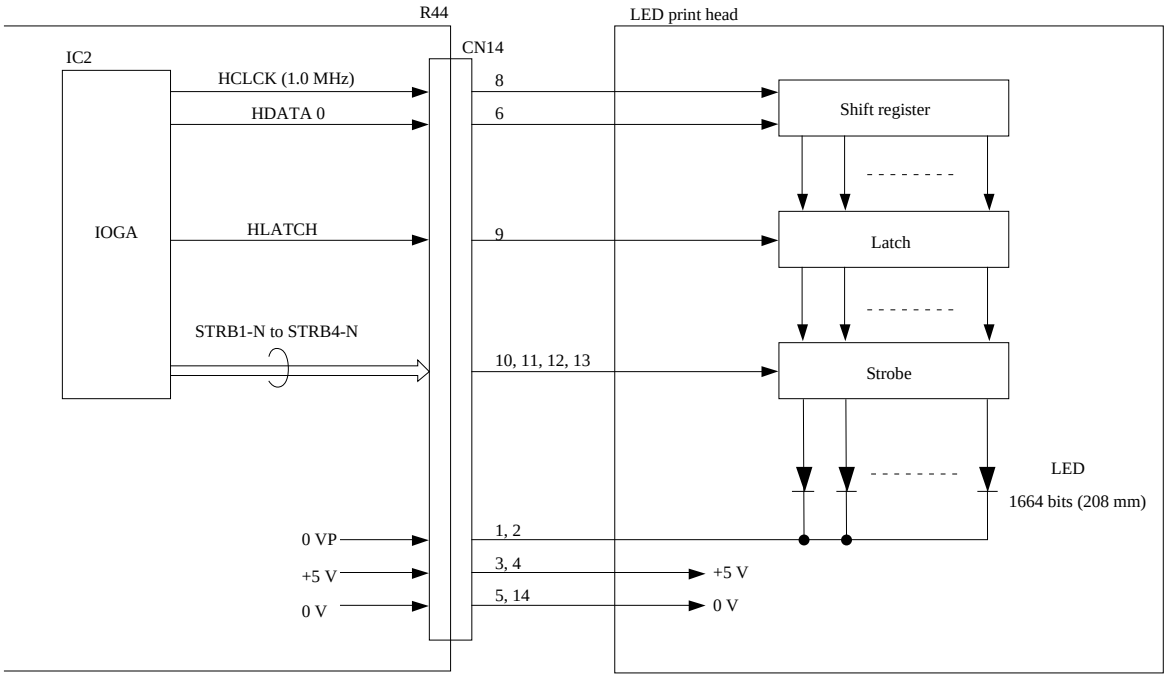

Figure A3.1.7 Related Signals and Block Diagram of LED Head

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1. Block diagram

The circuit diagram shown on page 8/12 consists of the following connectors:
- Connector CN10 that provides an interface between R44 board and NCU board.
- Connector CN3 that provides an interface between R44 board and external electro-mechanical conponents (PC1 and PC2).
- Connector CN4 that provides an interface between R44 board and OPE (O4W) unit.

Figure A3.1.8 shows an interface between R44 board and NCU board.
Figure A3.1.9 shows an interface between R44 board and OPE unit.
Figure A3.1.10 shows the related signals of PC1 and PC2.

2. Function

1) External status supervising interface (PC1/PC2)

External status is detected by the photocouplers (PC1/PC2) in the mechanism and the signal is output to the input port of CPU via this interface circuit.
- PC1: Presence of document on hopper.
  When sub-power supply is applied to the fax machine, this signal is output to OPE unit which will control the main-power supply.
- PC2: Presense of document at scanning position.

3. Others

NCU interface signal
- CML : Line seizure control signal
- DP : Dial pulse control signal
- SR : Control signal for connection between LINE and TEL terminals
- MUTE : Control signal for pulse dial improvement and bell shunt relay
- PP : Relay control signal for special service code detection at parallel pickup or remote reception
- PBXE : Control signal for connecting one of LINE terminal to the PBXE terminal
- OH2-N : Detection of off-hook of terminal connected to TEL-1 or TEL-2
- OH1-N : Output upon circuit current detection after fax line seizure
- RP : Receiving sensitivity determination terminal
- RI : Ringing detection signal
- S : Send signal (picture data/protocol/tonal signals/PB tone etc.)
- R : Received signal (picture data/protocol/tonal signals etc.)

OPE interface signals
- TXDOPE : This signal transmits sequencially the contents of each data of TXD (LED on/off information, etc.) to OPE in serial data from CPU.
- RXDOPE : This signal transmits sequencially the contents of each data of RXD (key code information, etc.) to CPU in serial data from OPE.
- OPECHK : Use to monitor the operation of the OPE unit.
- OPERST : Reset signal for OPE unit
- WAKEUP-N : Wakeup signal

A3.1.9 R44 Circuit Diagram (Page 9/12)

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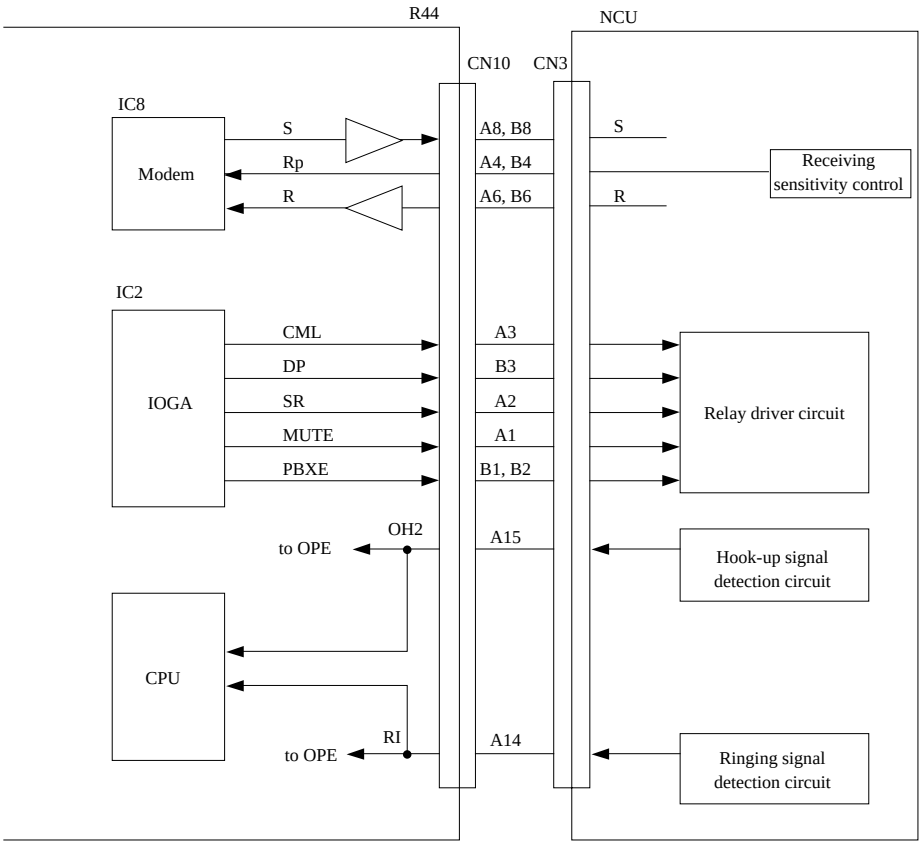

Figure A3.1.8 Interface between R44 Board and NCU Board

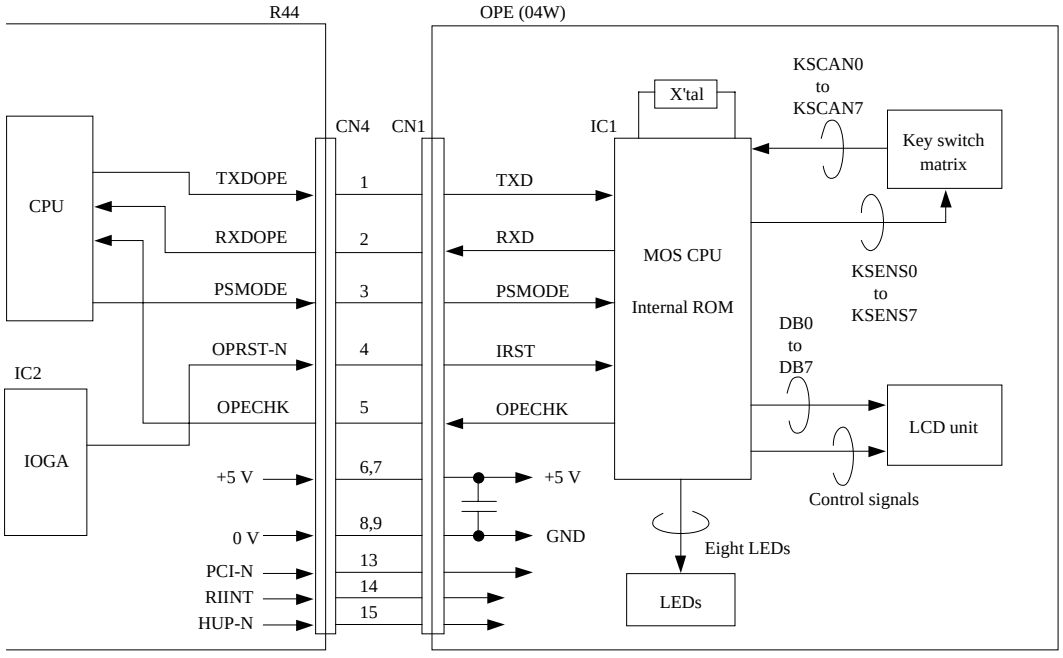

Figure A3.1.9 Interface between R44 Board and OPE (operation unit)

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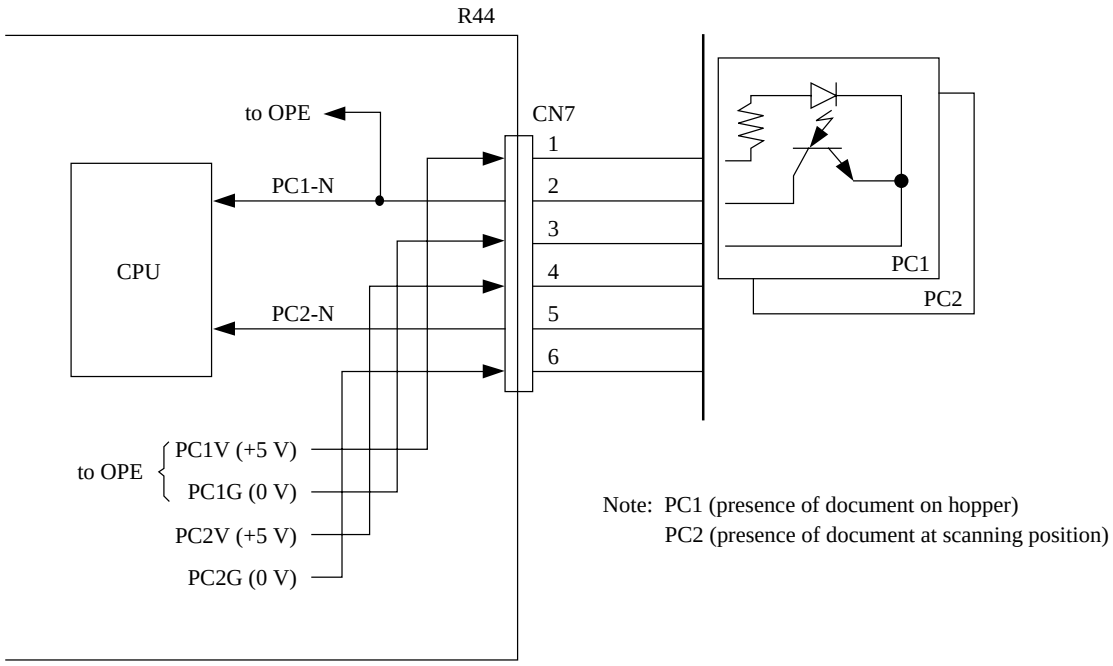

Figure A3.1.10 Related Signals of PC1/PC2

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1. Block diagram

The circuit diagram shown on page 9/12 consists of the following functions and connectors:

- IC9 (Drum motor driver)
- TR4/TR2 (Clutch driver)
- Connector CN15 that provides an interface between R44 board and the resist motor.
- Connector CN2 that provides an interface between R44 board and the clutch.

Figure A3.1.11 shows the related signals of the drum motor and clutch.

2. Function

1) Drum motor control

This drum motor is driven by the motor driver IC9. It is two-phase excited and bipolar-driven according to the DMPH1, DMPH2 and DMON1-N signals that are generated from the CPU. This drum motor rotates the image drum.

2) Clutch

When starting to print, performs the paper supply of recording paper by using this clutch. Clutch is driven by CLUTCH signal generated from CPU.

A3.1.10 R44 Circuit Diagram (Page 10/12)

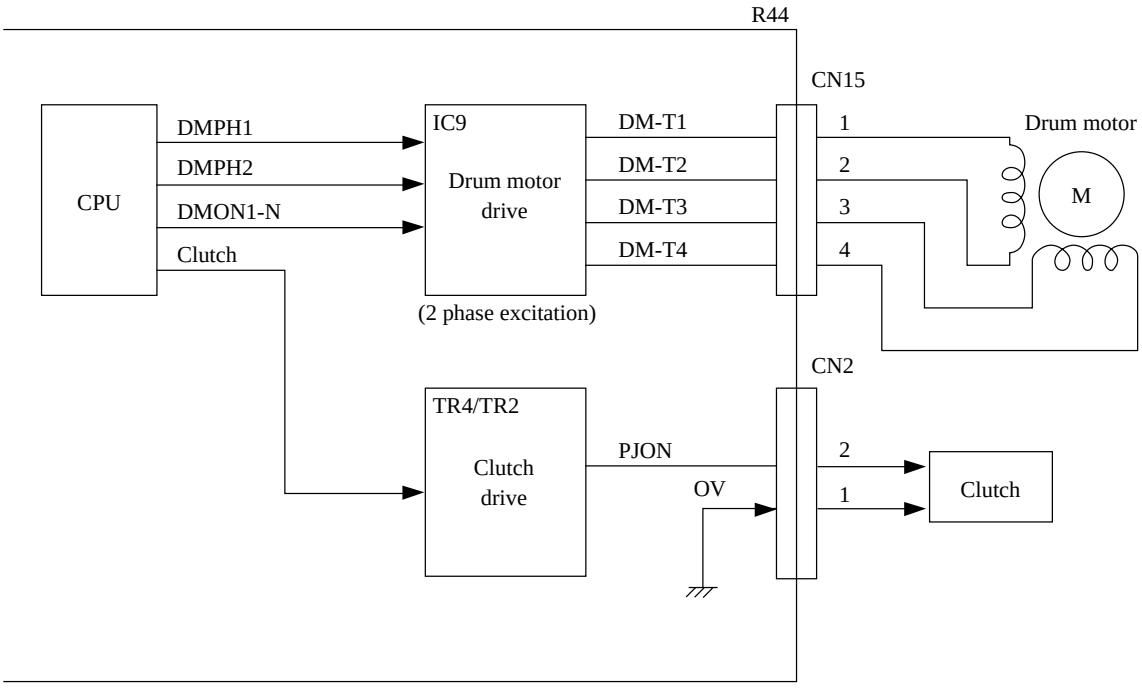

Figure A3.1.11 Related Signals of Drum Motor and Clutch

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1. Block diagram

The circuit diagram shown on page 10/12 consists of the following function and connectors:
- TA1 (Send motor driver)
- Connector CN1 that provides an interface between R44 board and the send motor.

Figure A3.1.12 shows the related signals of the send motor and fan motor.

2. Function

1) Send motor rotation and chopper control
Send motor drive signals are generated by the IOGA3 and output to send motor via TA1 (motor drive IC) of this circuit.

Note: The built-in motor control circuit of IOGA3 consists of the following blocks:
- Setting of the excitation operation
- Setting of the chopping operation
- Setting of the motor excitating method (1-2/2-1 phase excitation)

a) Send motor rotation control

There are several cases of the rotation operation:
Forward rotation for feeding documents.
- Case 1: Feeding document from hopper to the position where one line data is read.
- Case 2: Feeding document while reading.
- Case 3: Feeding document after a page has been read.

b) Send motor chopper control

The purpose of chopper control is to reduce the current to the motor by setting the phase signal on and off intermittently when a time lapse exceeding a specific time occurs without a phase update.

A3.1.11 R44 Circuit Diagram (Page 11/12)

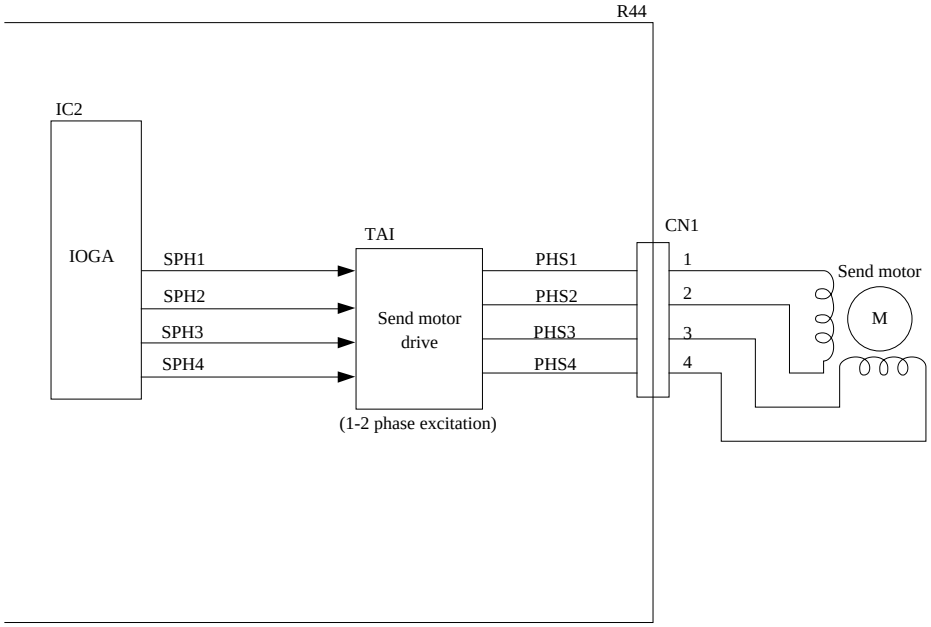

Figure A3.1.12 Related Signals of Send Motor

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1. Block diagram

The circuit diagram shown on page 11/12 consists of the following connectors:

- Connector CN13 that provides an interface between R44 board and optional memory board.
- Connector CN11 and CN12 that provides an interface between R44 board and optional CTR board.

Figure A3.1.13 shows the interface between R44 and memory board.
Figure A3.1.14 shows the interface between R44 and CTR (PC interface unit) board.

Note 1: One of 512 kbyte (MEM) or 1 Mbyte (MEM-2) memory board can be added to the memory capacity for OKIOFFICE 44/OKIFAX 4100.

A3.1.12 R44 Circuit Diagram (Page 12/12)

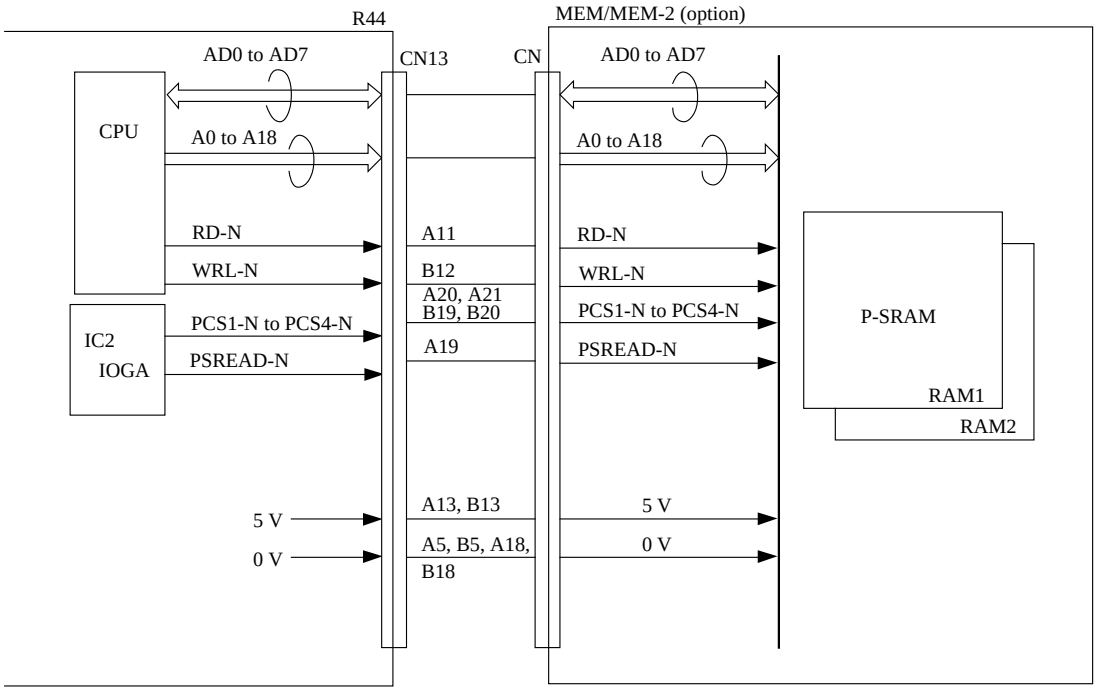

Figure A3.1.13 Interface between R44 Board and Memory Board (option)

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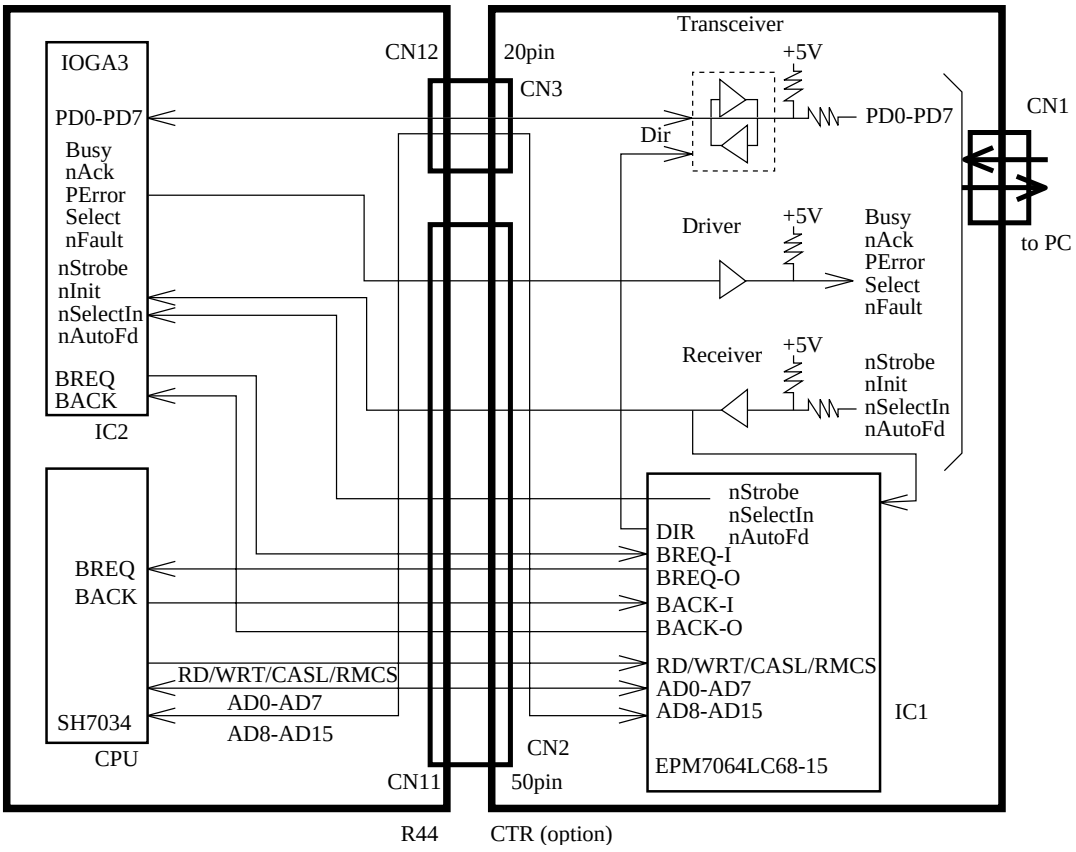

Figure A3.1.14 Interface between R44 Board and CTR Board (PC interface unit)

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1. Block diagram

The circuit diagram shown on page 12/12 consists of the following connector:

- Connector CN6 that provides an interface between R44 board and power supply unit.

2. Function

1) Sensor and switch control

Five types of sensors are used in the printer as listed below. All of their output enter IOGA ports for referring to and processing by the CPU.
Figure A3.1.15 shows sensors and switch control.

- Inlet sensor 1
- Write sensor (To detect the paper top position for printing)
- Outlet sensor
- Toner end sensor
- Cover status switch

The functions of various sensors are described in the following table.

2) Fuser unit temperature control

Sensor Type	Sensor Name	Function
PSIN1-N	Inlet sensor 1	This photosensor is positioned before the resist roller to detect whether the paper has entered into the printer section.
WRSNS-N	Write sensor	Detects the arrival of paper at designated position on the paper transport route inside the printer in order to turn on the light of the LED head. 0: Paper exists, 1: Paper does not exist
PSOUT-N	Outlet sensor	Located at the exit of the printer to supervise the paper exit operation. 0: Paper exists, 1: Paper does not exist
TNRSNS-N	Toner sensor	Detects the remaining toner in the toner cartrige. "The length of time of low-toner state within fixed time interval" detects a low-toner state.
CVOPN-N	Cover open sensor	Detects whether the cover of the printer section is open or not. 0: Cover is open, 1: Cover is close

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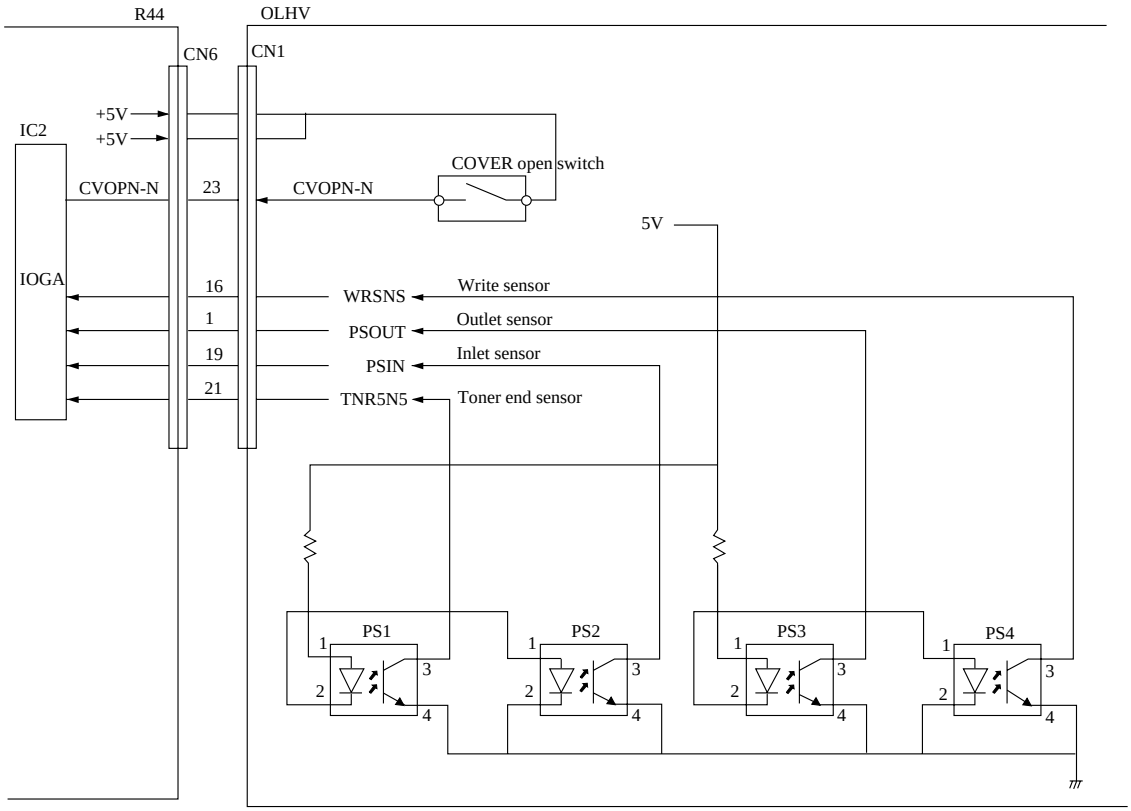

Figure A3.1.15 Sensor and Switch Control

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The heater in the fuser unit is controlled by the thermister, IOGA and CPU to keep the heater roller surface within a prescribed temperature range. The CPU supervises the status of PC0 (A/D converter input section) periodically, turning HEATON- N signal on and off according to CPU of PC0 status to exercise temperature control.
At power on time, the CPU switches the output signal THON from pin 65 (between high and low states) to check for a blown or shorted thermister according to the status of the THCHK signal.
A built-in thermostat in the fuser unit prevents the heater from being overheated in event of failures in the thermister, or temperature control circuit, etc.

Figure A3.1.16 shows the fuser unit temperature control.

Note: Heater control
Temperature of the heater at the time of printing is 150 ˚C to 180 ˚C. This temperature is maintained by controlling the on and off operation of heater according to the input of the thermister converted into analogue-digital (A/D) values by the CPU.

2)-1 Heater control

The ACON control signal on the secondary side is transmitted to the primary side via PC3 to turn triac TRC1ON for AC voltage supply to the heater.

3) High-voltage and medium-voltage control

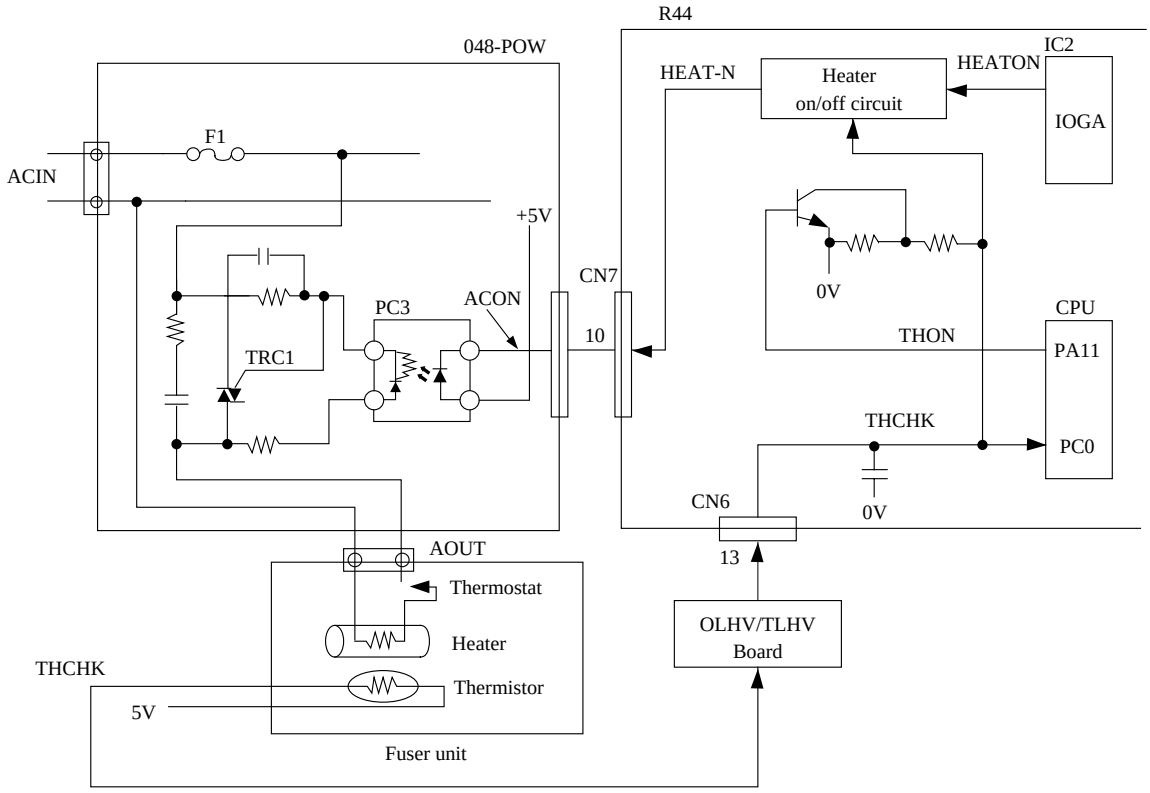

Figure A3.1.16 Fuser Unit Temperature Control

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High voltages are activated by IOGA and generated by the high-voltage circuit inside the power supply unit. The CH (charge) voltage of about -1.35kV is used for the charge roller. The TR1/TR2 (transfer) voltage of about +3.5kV/-0.75kV is used for the transfer roller.

Medium voltages are activated by IOGA and generated by the medium-voltage circuit inside the power supply unit. The SB1/SB2 (toner supply) voltage of about +0V/-450V is used for the toner supply roller. The DB1/DB2 (developing) voltage of about +300V/-300V is used for the developing roller. The CB (cleaning) voltage of about +400V is used for the cleaning roller.

Figure A3.1.17 shows high/medium voltages control.

* Signals used to control the high/medium-voltages are listed below.

Signal Name	Description
CHON	"1": CH is output.
DBON1	"1": + ive polarity voltage of DB/SB is output.
DBON2	"1": - ive polarity voltage of DB/SB is output.
TRON1	"1": + ive polarity voltage of TR is output.
TRON2	"1": - ive polarity voltage of TR is output.

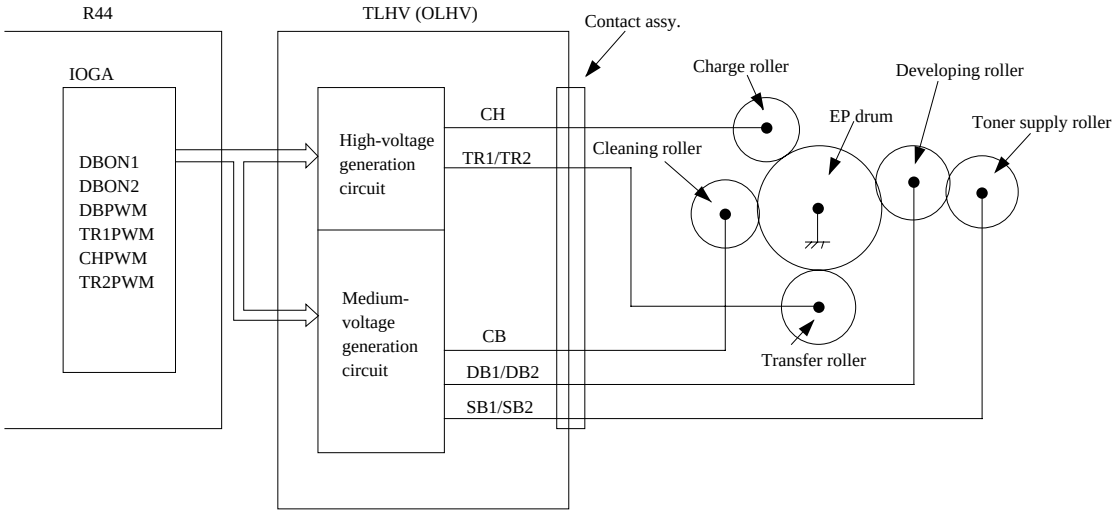

Figure A3.2.17 High/Medium Voltages Control

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A3.2 M17 Circuit Diagram (for OKIFAX 5000 series)

A3.2.1 M17 Circuit Diagram (Page 1/17)

1. Block diagram

The circuit diagram shown on page 1/17 consists of a CPU, crystal oscillator circuit and reset signal generator.

Figure A3.2.1 shows the block diagram of CPU and the peripheral circuits.

2. Function

1) Crystal oscillator circuit

X1 is a 20 MHz crystal ocillator. The output wave is fed to the CPU through pins 73 and 74.
CLK (20MHz) signal output from pin 71 is used as the system clock and output to IC2 (IOGA3: input/output gate array) IC20 (IEXCEED) and CTR board.

2) CPU

CPU controls the following functions in addition to the basic processor.

- Scanning control
- Picture processing control
- Printing control
- Serial communication interface (SCI)
- DMA (direct memory access) control
- Interrupt procedure control
- A/D converter
- Programmable pattern control
- 16 bit integrated timer pulse unit (ITU)
- Timing pattern control (TPC)

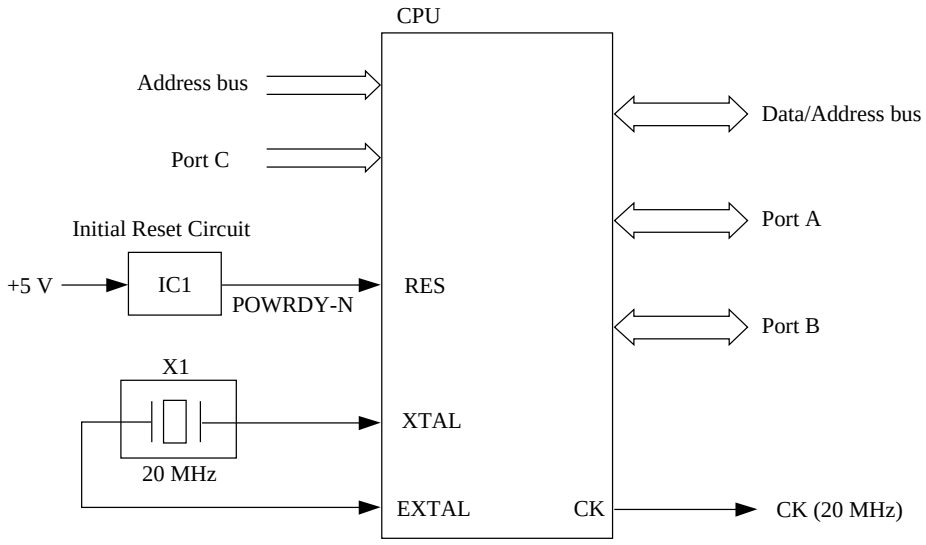

Figure A3.2.1 Related Signals of CPU

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A3.2.2 M17 Circuit Diagram (Page 2/17)

1. Block diagram

The circuit diagram shown on page 2/17 consists of an input/output gate array IC2 (IOGA3).

Figure A3.2.2 shows the related signals of IOGA3.

2. Functions

IOGA3 is newly developed LSI for scanning and printing control of OKIFAX 5000 series.
IOGA3 contains the following functions:

- Strobe signals control for LED head
- Smoothing control for printing data
- Interface of the peripheral LSI and CPU

3. Others

1) The route to transfer print data to the LED head is follows:

- Data bus route: RX, Memory, Report mode, etc.

2) System clock (CLK) is divided by IOGA3 and these divided clocks are transferred to the IEXSEED (IC20), LED head and 2'nd tray.

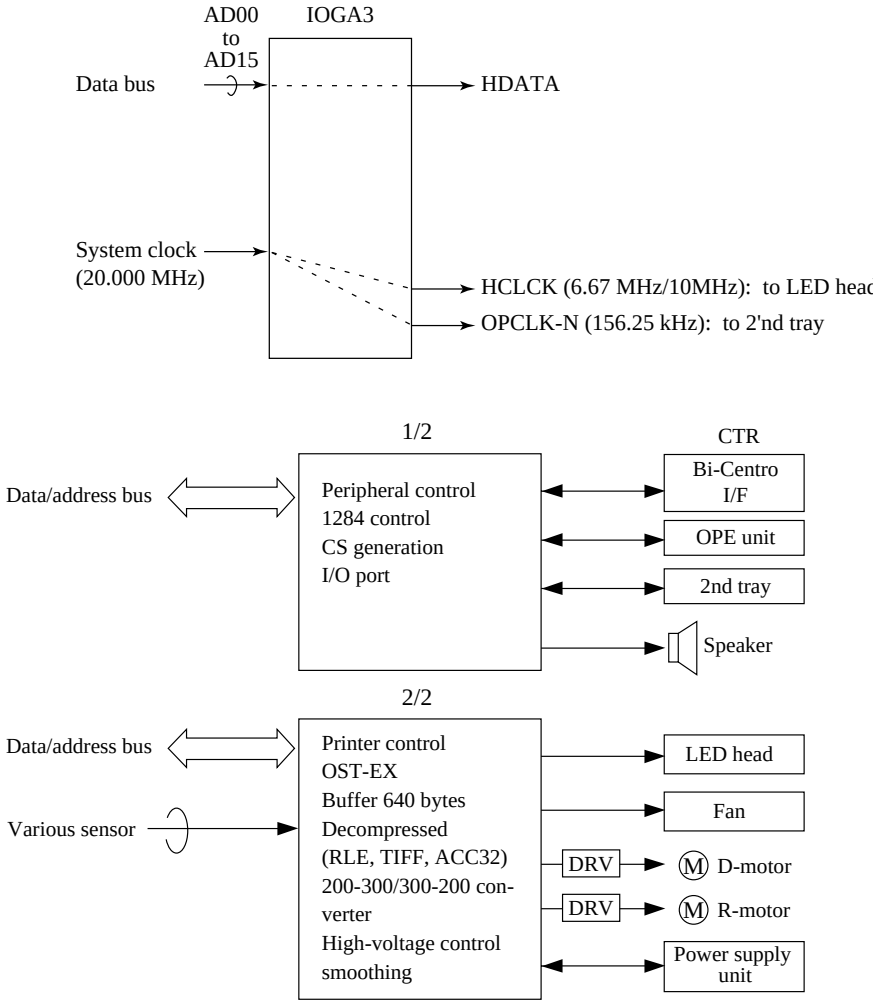

Figure A3.2.2 Related Signals of IOGA

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A3.2.3 M17 Circuit Diagram (Page 3/17)

1. Block diagram

The circuit diagram shown on page 3/17 consists of Flash memory, Mask ROM, IC3 (Real time clock IC) and Back up battery circuit.

Figure A3.2.3 shows the block diagram of Flash memory, Mask ROM and Real time clock.

2. Function

1) Flash memory (FLS)

Flash memory (electrically erasable and programmable device) is used for the main software program which is stored in EP-ROM of the current OKIFAX. Other than the function of EP-ROM, Flash memory is also used for the user data area instead of SRAM chips.

- 512 KByte Flash memory x 1 (FLS)
  Used for work area, report recording etc.

2) Back-up battery circuit

- Non-rechargeable lithium for RTC-IC (real-time clock IC)

3) Real-time clock IC (IC3)

IC3 is a real-time clock IC used as a timepiece to display the data and time in year, month, day, hour, minute, and second units. Its input/output signals are the 4-bit data bus (AD00 - AD03), 4-bit address bus (A01 - A04) and the control signals PRDY0, RTCCS, MDMRD-N and RTCWR-N which perform a CPU-controlled read operation (M/D/Y H:M, Data read) and write operation (M/D/Y H:M, Data setting).

4) MASK

- 512 KByte Flash memory or Mask ROM x 1 (MASK)
  Used for program storage

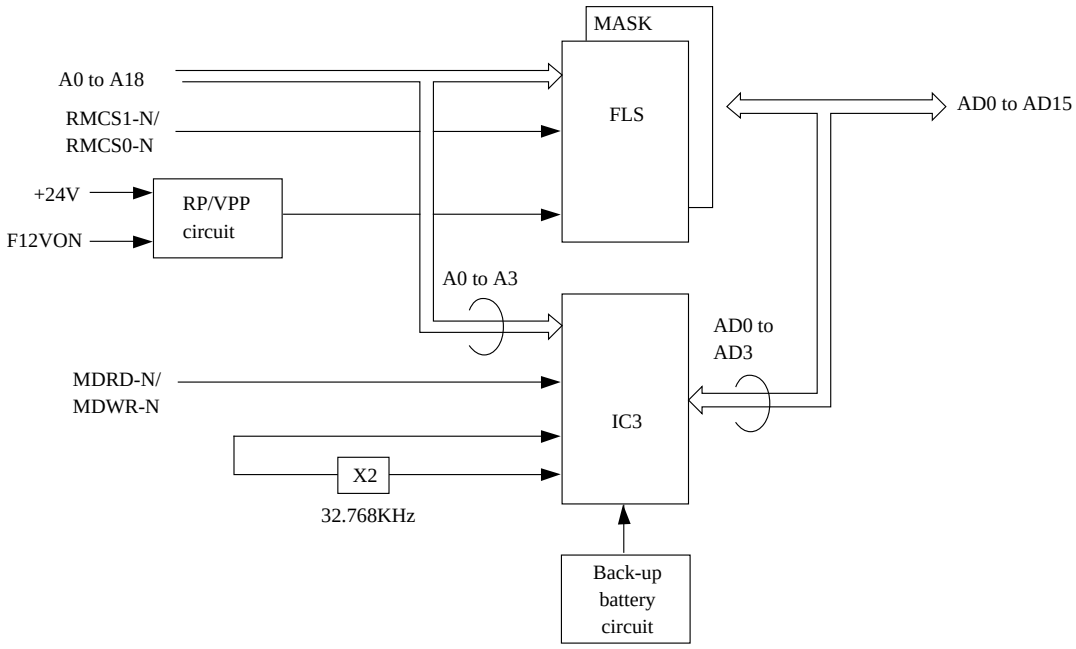

Figure A3.2.3 Block Diagram of FLS, MASK and Real Time Clock

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A3.2.4 M17 Circuit Diagram (Page 4/17)

1. Block diagram

The audio monitor circuit on page 4/17 that consists of IC11 (analog switch IC) and IC5 (amplifier) generates the following audio monitor.

- Line monitoring
- Buzzer signals

Figure A3.2.4 shows the block diagram of audio monitor circuit.

2. Function

1) Line monitoring

Send and receive signals are input from the transformer on the NCU board to this circuit as RM signal and the signal power is input to the IC11. The IC11 adjusts the monitor volume by MONC0, MONC1 and MONC2 signal under the control of IOGA3. Output (high and low) from IC11 passes through the amplifier and fed to the speaker as a SP signal.

- MONC0/MONC1/MONC2 signal : Volume control signal.

Note: In case of transmission mode, the monitor will be available during dialing, but the monitor will be switched off automatically after the elapse of specified time (about 5 sec).

2) Buzzer control

Alarm and other signals (key touch etc.) are input from CPU to this circuit as BZ signal. The various buzzer signals are sounded under the control of CPU.

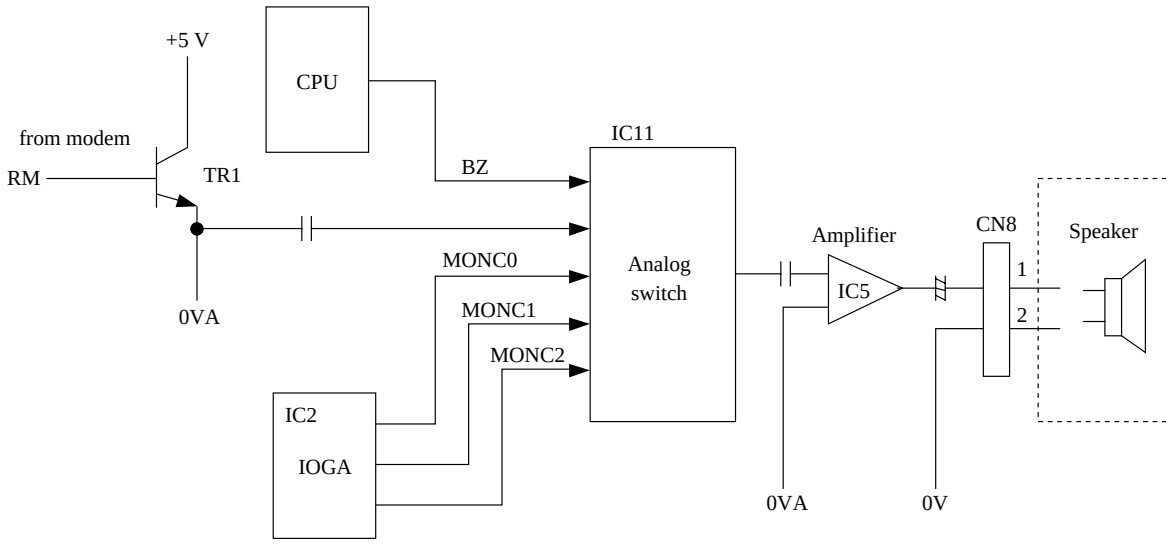

Figure A3.2.4 Block Diagram of Audio Monitor Circuit

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A3.2.5 M17 Circuit Diagram (Page 5/17)

1. Block diagram

The circuit diagram shown on page 5/17 consists of the following function:

- IC6 (A/D converter) and amplifier
- 30 V/24 V conversion circuit
- Connector CN10 that provides an interface between M17 board and CIS (contact image sensor).

Figure A3.2.5 shows the related signals and block diagram of CIS.

2. Function

One-line picture data is read in the sequence from the scanning unit (CIS) as SIG signal (analog data) to A/D converter (analog/digital converter) of IC6 via amplifier. After conversion from analog data to 6-bit digital signal (SDT2 - SDT7) under the control of IC6, the picture data is sent to EXSEED (scanning control LSI) of IC20. Here, the picture data undergoes various kinds of picture processings.

Sensor interface signal output from EXSEED.

- LEDON: LED on/off control signal
- PDCK : Scanning sensor drive clock (1.25MHz for ODA/833KHz for INT'L)
- MISP : Scanning synchronous signal (2.5 msec)
- ADCLK: Sampling clock for A/D converter (1.25MHz for ODA/833KHz for INT'L)

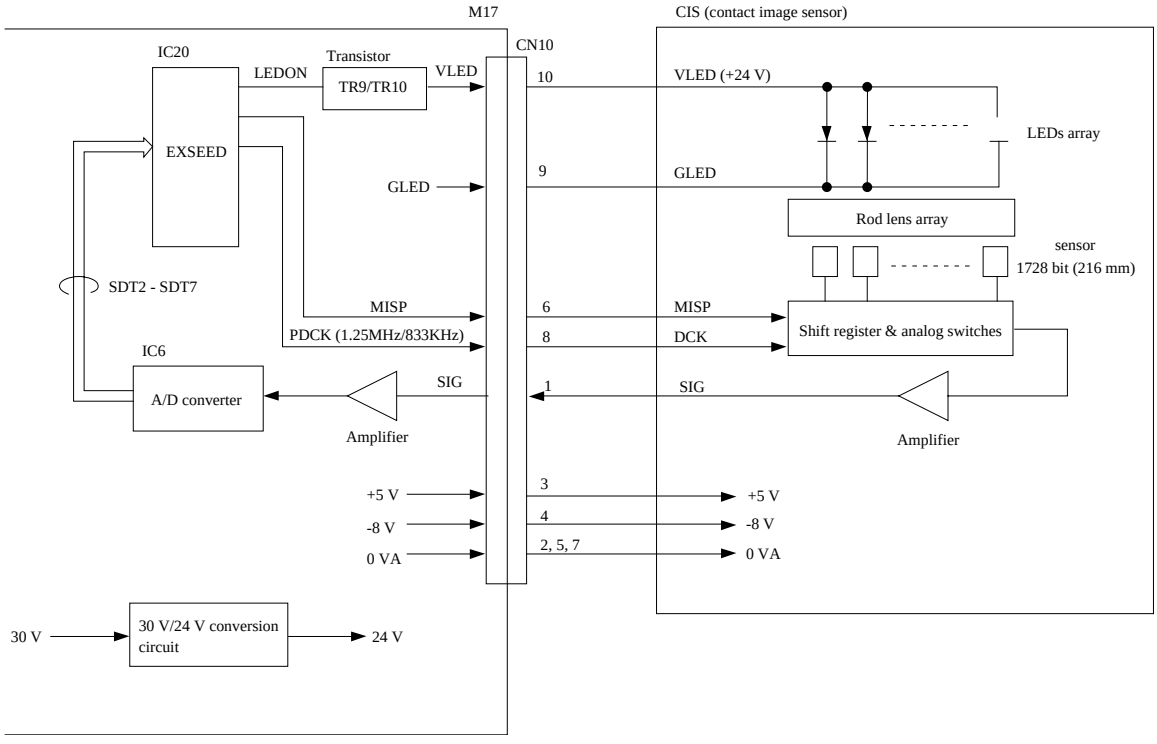

Figure A3.2.5 Related Signals and Block Diagram of CIS (contact image sensor)

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A3.2.6 M17 Circuit Diagram (Page 6/17)

1. Block diagram

   The circuit diagram shown on page 6/17 consists of the IEXSEED (image processing LSI) of IC20 and SRAM.

   Figure A3.2.6 shows the related signals of IEXSEED.

2. Functions

   IEXSEED is newly developed LSI for the image processing of OKIFAX 5000 series.
   IEXSEED contains the following functions:
   - Contact image sensor driver
   - Send motor forward rotation/chopping control
   - Line buffer control

3. SRAM

   256 KByte SRAM x 1 (RAM1)
   Stores the dark/light level correction data.
   Error diffusion data and image separation data are processed by IEXSEED.

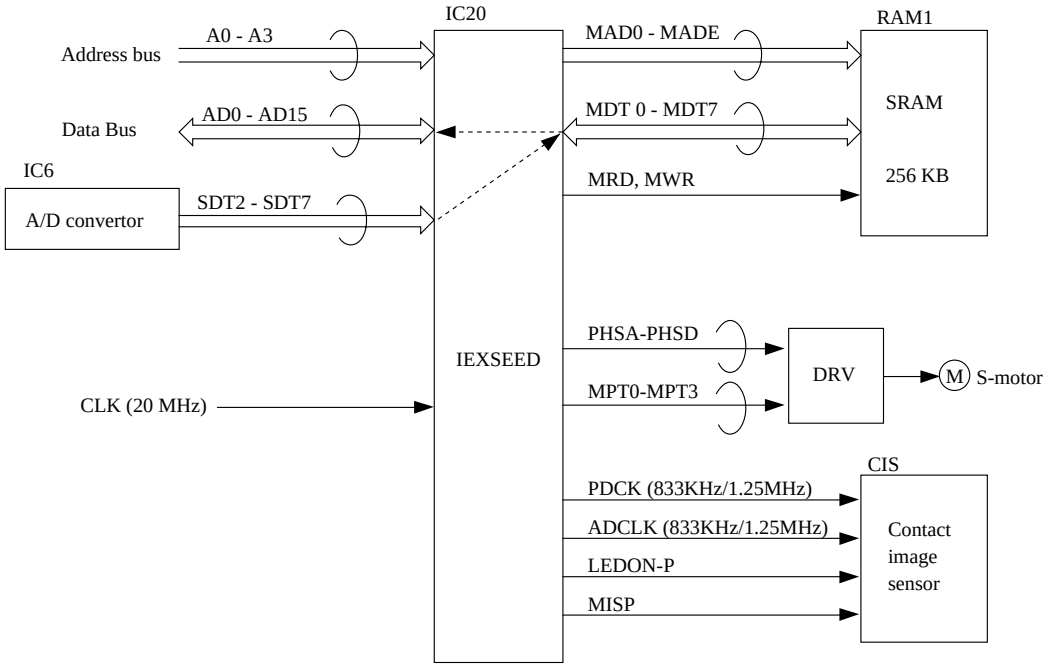

Figure A3.2.6 Related Signals of IEXSEED

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A3.2.7 M17 Circuit Diagram (Page 7/17, 8/17, 17/17)

1. Block diagram

The circuit diagram shown on page 8/17 consists of connector CN15 that provides an interface between M17 board and the Modem board (28.8 kbps).

The circuit diagram shown on page 7/17 consists of Modem (14.4kbps).
The circuit diagram shown on page 17/7 consists of Modem (V34 modem or S34).

Modem consists the following functions:

- Modulation/demodulation
  Modulation type:

1) ITU-T Rec. V34 (28800 bps) for G3 picture data: OKIFAX 5500/5600
2) ITU-T Rec. V17 (14400/12000/9600/7200 bps) for G3 picture data.
3) ITU-T Rec. V33 (14400/12000 bps) for G3 picture data.
4) ITU-T Rec. V29 (9600/7200 bps) for G3 picture data.
5) ITU-T Rec. V27 ter (4800/2400 bps) for G3 picture data.
6) ITU-T Rec. V21 channel 2 (300bps) for binary signals defined in ITU-T Rec. T.30.

- Automatic adaptive equalizer for G3 receive data with 300 bps data excluded.
- Generation of signal tones
- PB tone (multi-frequency tone) generation
- Detection of single tones
- D/A converter for send data (TX)
- A/D converter for receive data (RX)
- Amplitude equalizer for RX
- Selectable attenuation for TX
- Automatic gain control

Figure A3.2.8 shows the related signals of Modem.

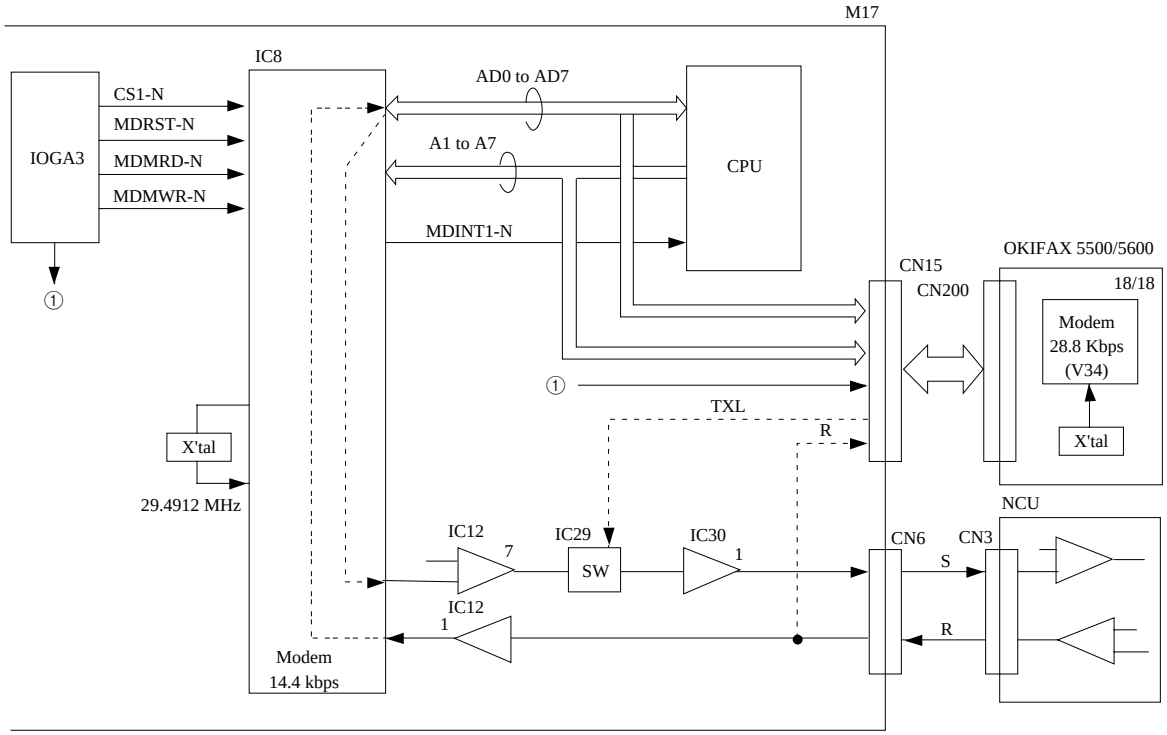

Figure A3.2.8 Related Signals of Modem

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A3.2.8 M17 Circuit Diagram (Page 9/17)

1. Block diagram

The circuit diagram shown on page 9/17 consists of the following connectors:

- Connector CN6 that provides an interface between M17 board and NCU board.
- Connector CN7 that provides an interface between M17 board and external electro-mechanical devices (PC1 and PC2).
- Connector CN9 that provides an interface between M17 board and OPE (O5W) unit.

Figure A3.2.9 shows an interface between M17 board and NCU board.
Figure A3.2.10 shows an interface between M17 board and OPE unit.
Figure A3.2.11 shows the related signals of PC1 and PC2.

2. Function

1) External status supervising interface (PC1/PC2)

External status is detected by the photocouplers (PC1/PC2) in the mechanism and the signal is output to the input port of CPU via this interface circuit.

- PC1: Presence of document on hopper.
  When sub-power supply is applied to the fax machine, this signal is output to OPE unit which will control the main-power supply.
- PC2: Presense of document at scanning position.

3. Others

NCU interface signal

- CML : Line seizure control signal
- DP : Dial pulse control signal
- SR : Control signal for connection between LINE and TEL terminals
- MUTE : Control signal for pulse dial improvement and bell shunt replay
- PP : Relay control signal for special service code detection at parallel pickup or remote reception
- PBXE : Control signal for connecting one of LINE terminal to the PBXE terminal
- OH2 : Detection of off-hook of terminal connected to TEL-1 or TEL-2
- OH1 : Output upon circuit current detection after fax line seizure
- RP : Receiving sensistivity determination terminal
- RI : Ringing detection signal
- S : Send signal (picture data/protocol/tonal signals/PB tone etc.)
- R : Received signal (picture data/protocol/tonal signals etc.)

OPE interface signals

- TXDOPE : This signal transmits sequencially the contents of each data of TXD (LED on/off information, etc.) to OPE in serial data from CPU.
- RXDOPE : This signal transmits sequencially the contents of each data of RXD (key code information, etc.) to CPU in serial data from OPE.
- OPECHK : Use to monitor the operation of the OPE unit.
- OPERST : Reset signal for OPE unit
- WAKEUP-N : Wakeup signal
- PSMODE : Power Save Mode off signal from OPE.
- MP/OFF : Main Power On/Off signal to Main Power Supply Unit.
- MPREQ : Main Power off signal from CPU.

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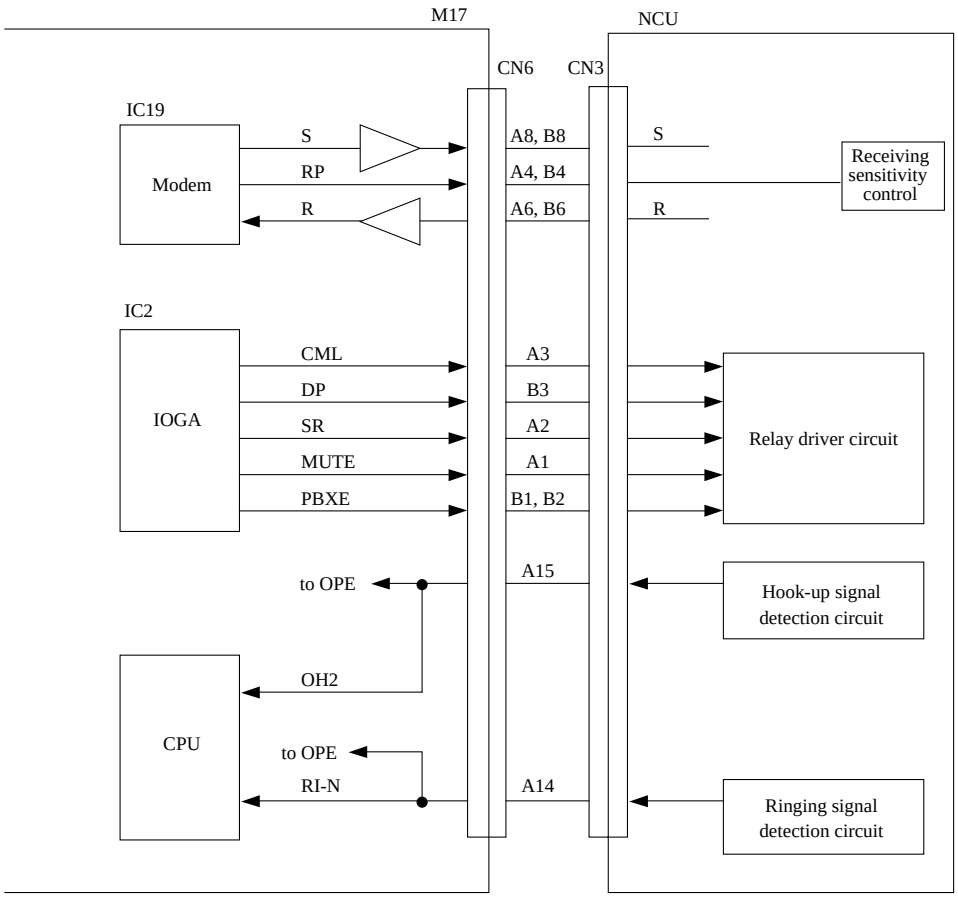

Figure A3.2.9 Interface between M17 Board and NCU Board

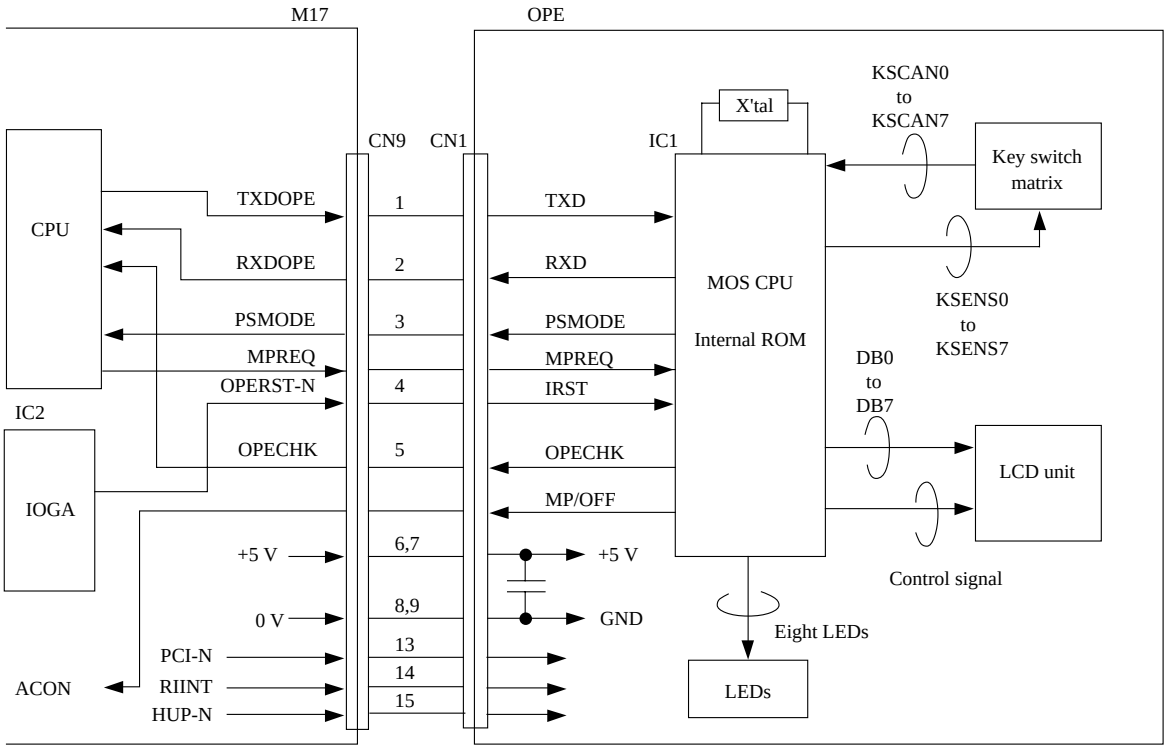

Figure A3.2.10 Interface between M17 Board and OPE (operation unit)

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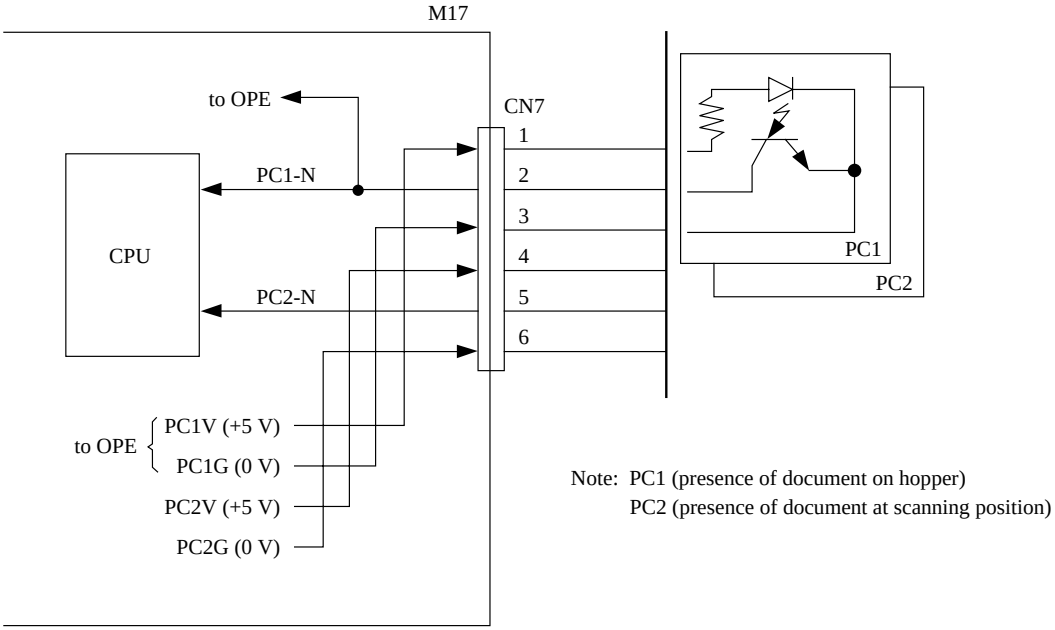

Figure A3.2.11 Related Signals of PC1/PC2

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A3.2.9 M17 Circuit Diagram (Page 10/17)

1. Block diagram

The circuit diagram shown on page 10/17 consists of connector CN2 that provides an interface between M17 board and LED print head.

Figure A3.2.12 shows the related signals and block diagram of LED print head.

2. Function

Data of 1664 LEDs on the LED print head is loaded into the shift registers by the HCLCK (6.67 MHz) signal. After the 1664 bit (208mm) data is loaded in the shift registers, it is then loaded in the latch circuit by the HLATCH signal. The turning -on and off of the LEDs are controlled by STRB1-N to STRB4-N signals.

LED head interface signals output from IOGA

- HDATA 0 : Print data i.e., data to be printed
- HCLCK : Transfer clock for print data (6.67 MHz/10MHz)
- HLATCH : Latch signal for print data
- STRB1-N to STRB4-N : LED head strobe signals

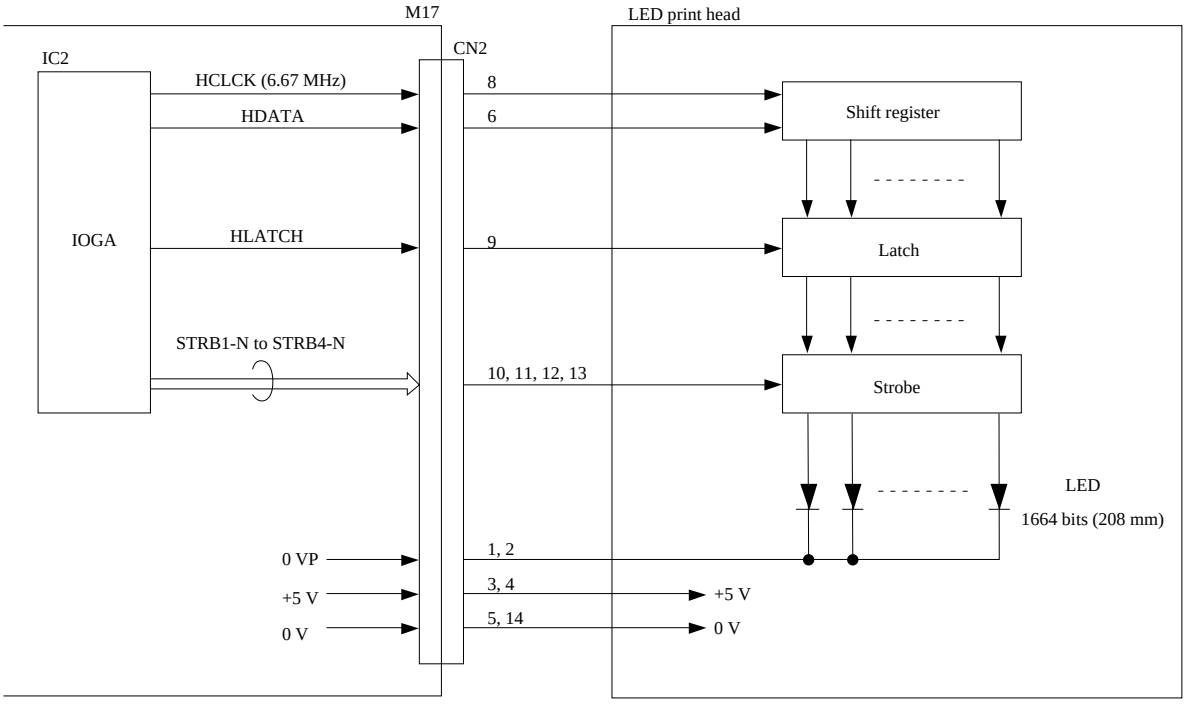

Figure A3.2.12 Related Signals and Block Diagram of LED Head

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A3.2.10 M17 Circuit Diagram (Page 11/17)

1. Block diagram

The circuit diagram shown on page 11/17 consists of the following functions and connectors:

- IC21 (Send motor drive)
- Connector CN5 that provides an interface between M17 board and the send motor.

Figure A3.2.13 shows the related signals of the send motor.

2. Function

1) Send motor rotaion and chopper control

Send motor drive signals are generated by the IEXSEED and output to send motor via IC21 (motor drive IC) of this circuit.

Note: The built-in motor control circuit of IEXSEED consists of the following blocks:

- Setting of the excitation operation
- Setting of the chopping operation
- Setting of the chopping frequency
- Setting of the motor forward
- Setting of the motor excitation method (1-2/2-1 phase excitation)

a) Send motor rotaion control

There are several cases of the rotation operation:
Forward rotation for feeding documents.

- Case 1: Feeding document from hopper to the position where one line data is read.
- Case 2: Feeding document while reading.
- Case 3: Feeding document after a page has been read.

b) Send motor chopper control

The purpose of chopper control is to reduce the current to the motor by setting the phase signal on and off intermittently when a time lapse exceeding a specific time occurs without a phase update.

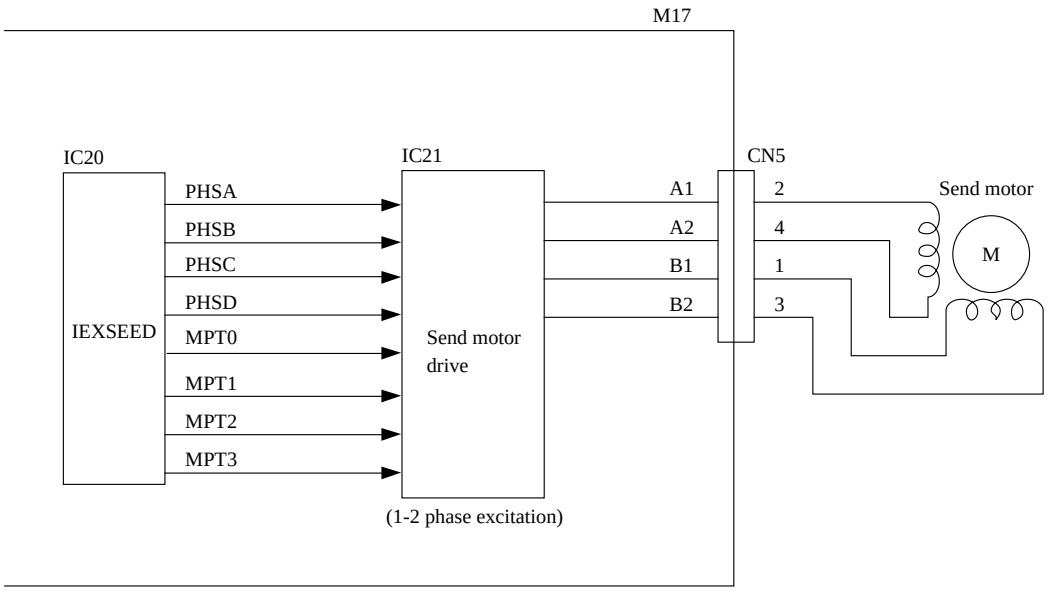

Figure A3.2.13 Related Signals of Send Motor

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A3.2.11 M17 Circuit Diagram (Page 12/17)

1. Block diagram

The circuit diagram shown on page 12/17 consists of the following functions and connectors:

- IC9 (Drum motor driver)
- IC22 (Resist motor driver)
- Connector CN3 that provides an interface between M17 board and the resist motor.
- Connector CN4 that provides an interface between M17 board and the drum motor.

Figure A3.2.14 shows the related signals of the drum motor and resist motor.

2. Function

1) Drum motor control

The drum motor is driven by the motor driver IC9. It is two-phase excited and bipolar-driven according to the DMPH1 and DMPH2 signals that are generated from the CPU. The DMON2-N, DMENA-N signal are generated from CPU. This drum motor rotates the image drum.

2) Resist motor control

The resist motor is driven by the motor driver IC22. It is two-phase excited and bipolar-driven according to the RMPH1 and RMPH2 signals that are generated from the CPU. The RMON1-N, RMON2-N signal ARE generated from CPU. This resist motor rotates the hopping (paper hopping) roller and the resist (paper feed) roller.
Refer to Appendix B of the page B-3.

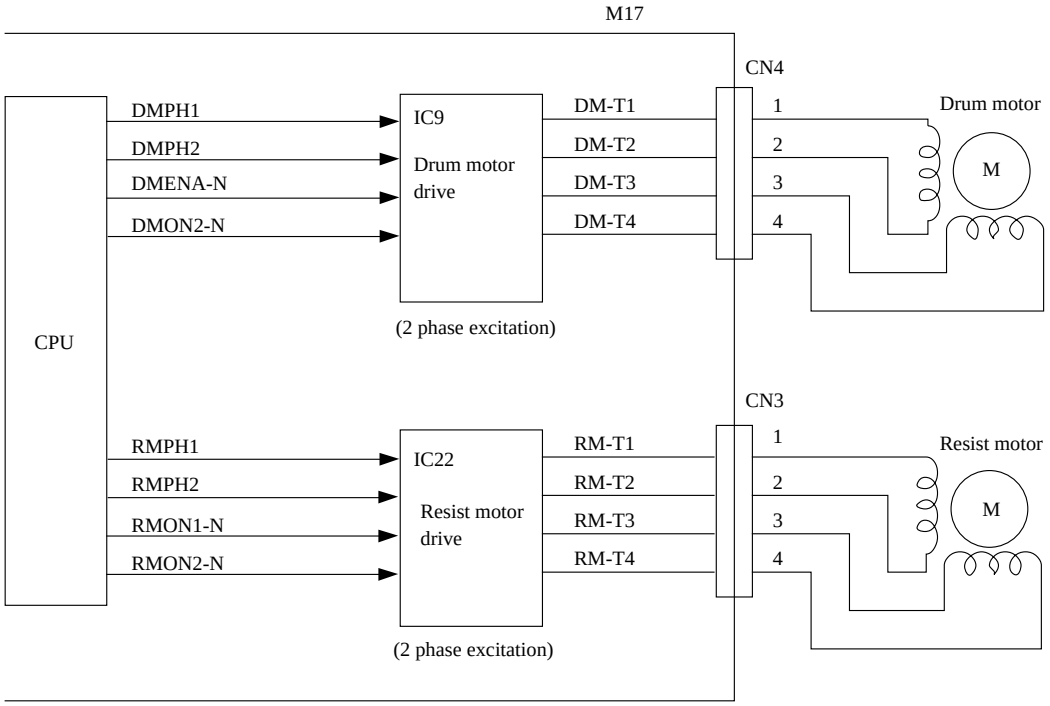

Figure A3.2.14 Related Signals of Drum/Resist Motor

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A3.2.12 M17 Circuit Diagram (Page 13/17)

1. Block diagram

The circuit diagram shown on page 13/17 consists of the following connectors:
- Connector CN11 that provides an interface between M17 board and the fan motor.
- Connector CN14 that provides an interface between M17 board and the second tray (option).
- Connector CN16 that provides an interface between M17 board and Sub-power unit.

Figure A3.2.15 shows the related signals of the fan motor.
Figure A3.2.16 shows an interface between M17 board and the second tray (option).

2. Function

1) Fan motor control

The fan motor is controlled by the FANON signal generated from IOGA3 under the temperature control of the heater. The operating status of the fan is supervised by the FANSNS-N signal.

The fan rotates in the following 3 status:
- Normal mode
- Cover open
- Paper jamming occurring in the paper transport route

2) Second tray (option)

Second tray consists of the following functions:
- Paper capacity : 500 sheets
- Paper size : A4, Letter, Legal
- Paper-size selection : Manual
- Cassette/no-cassette selection: Automatic
- Paper/no-paper selection : Automatic
- Paper route open to facsimile transceiver unit: Automatic decision

Control method:
When second tray is installed on the facsimile transceiver unit, the tray is connected to the facsimile transceiver unit by a connector. The tray controls by the command from CPU of PU (printer unit) section.

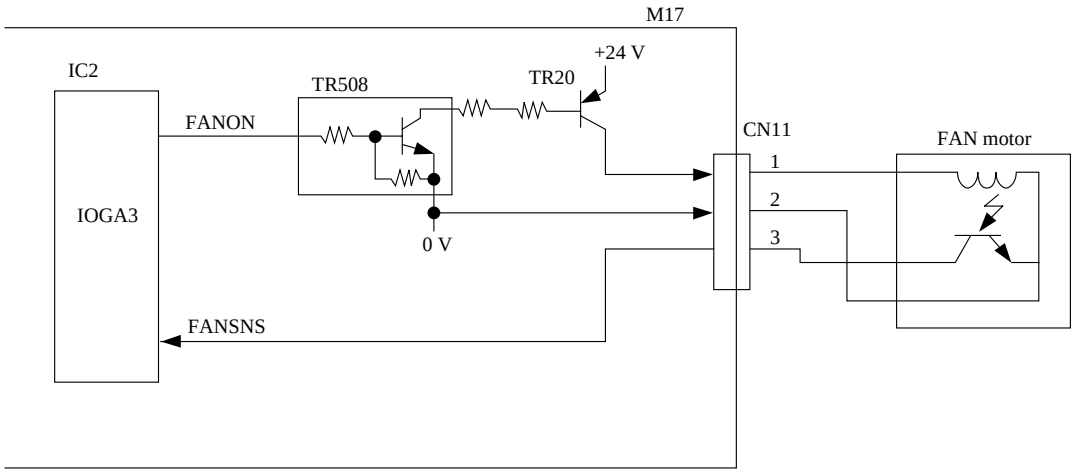

Figure A3.2.15 Related Signals of Fan Motor

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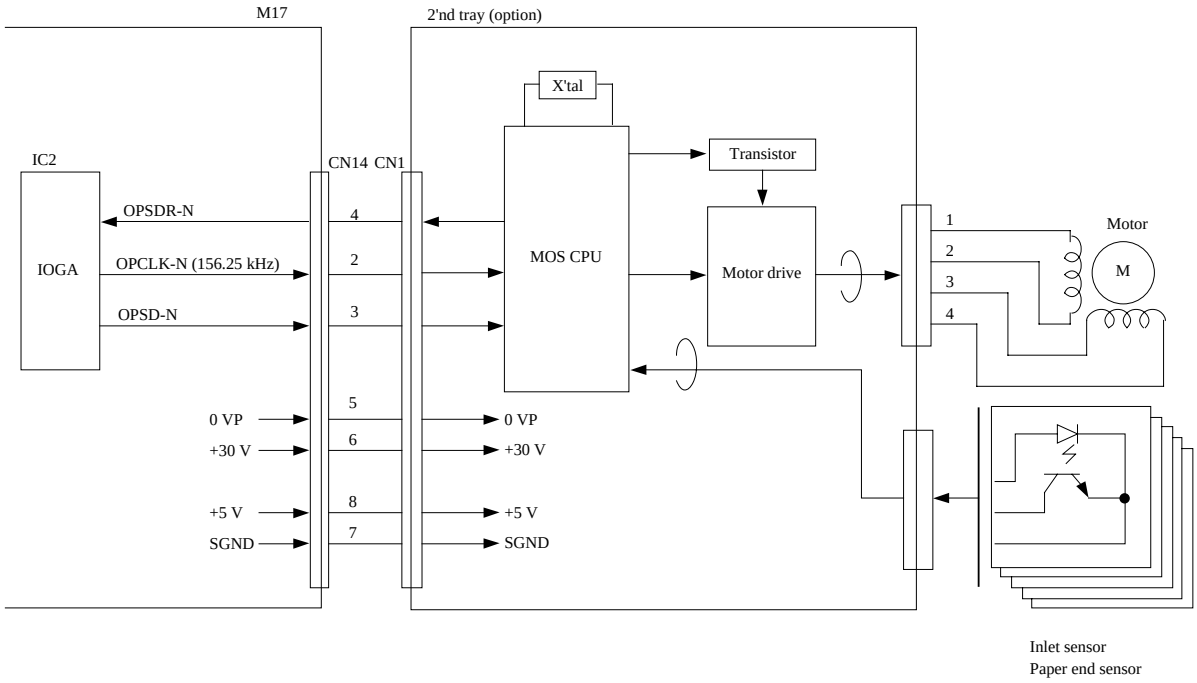

Figure A3.2.16 Interface between M17 Board and 2'nd Tray

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A3.2.13 M17 Circuit Diagram (Page 14/17)

1. Block diagram

The circuit diagram shown on page 14/17 consists of the following connector:

- Connector CN1 that provides an interface between M17 board and main power supply unit.

2. Function

1) Sensors and switch control

Six types of sensors are used in the printer as listed below. All of their output enter IOGA3 ports for referring to and processing by the CPU.
Figure A3.2.17 shows sensors and switch control.

- Inlet sensor 1 and 2
- Write sensor (To detect the paper top position for printing)
- Outlet sensor
- Paper end sensor
- Toner end sensor
- Cover status switch

The functions of various sensors are described in the following table.

Sensor Type	Sensor Name	Function
PSIN-N PSIN2-N	Inlet sensor Inlet sensor 2	This photosensor is positioned before the resist roller to detect whether the paper has entered into the printer section.
WRSNS-N	Write sensor	Detects the arrival of paper at designated position on the paper transport route inside the printer in order to turn on the light of the LED head. 0: Paper exists, 1: Paper does not exist
PSOUT-N	Outlet sensor	Located at the exit of the printer to supervise the paper exit operation. 0: Paper exists, 1: Paper does not exist
PAPER-N	Paper sensor	Detects the presence of paper in the paper cassette. 0: Paper exists, 1: Paper does not exist
TNRSNS-N	Toner sensor	Detects the remaining toner in the toner cartrige. "The length of time of low-toner state within fixed time interval" detects a low-toner state.
CVOPN-N	Cover open sensor	Detects whether the cover of the printer section is open or not. 0: Cover is open, 1: Cover is close

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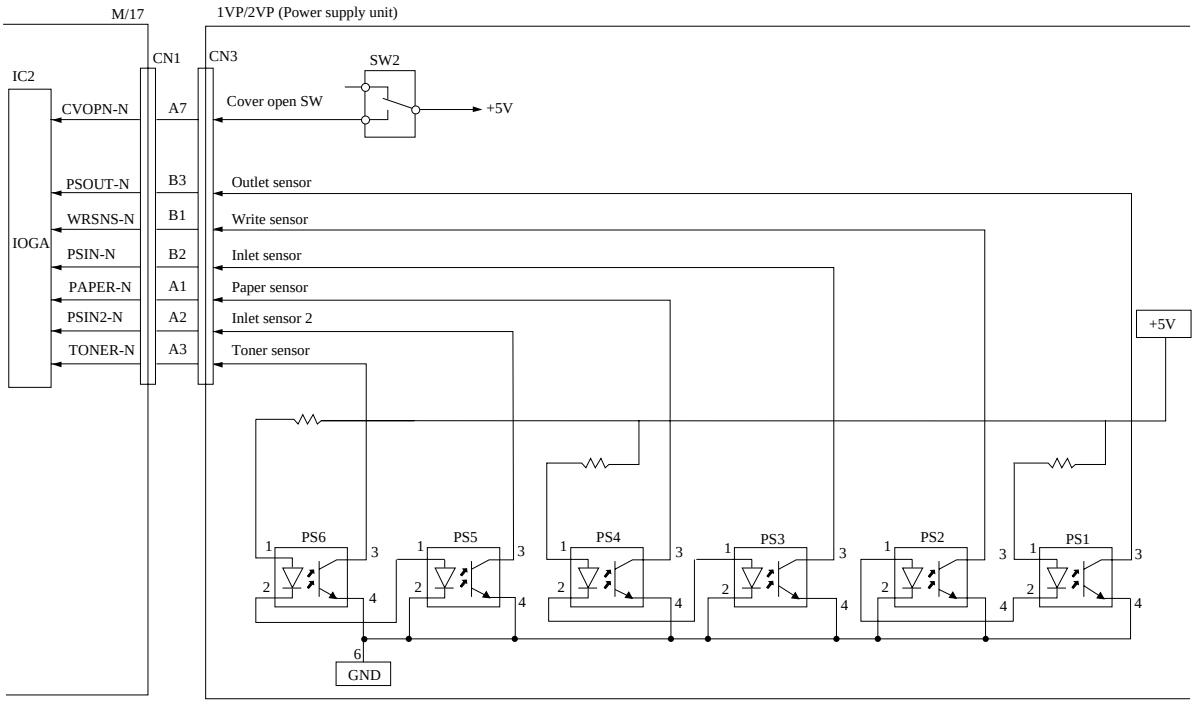

Figure A3.2.17 Sensors and Switch Control

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2) Fuser unit temperature control

The heater in the fuser unit is controlled by the thermister, IOGA3 and CPU to keep the heater roller surface within a prescribed temperature range. The CPU supervises the status of the port PC0 periodically, turning HEATON signal on and off according to CPU of PC0 (A/D converter input section) status to exercise temperature control.
At power on time, the CPU switches the output signal THON from pin 65 (between high and low states) to check for a blown or shorted thermister according to the status of the THCHK signal.
A built-in thermostat in the fuser unit prevents the heater from being overheated in event of failures in the thermister, or temperature control circuit, etc.

Figure A3.2.18 shows the fuser unit temperature control.

Note: Heater control
Temperature of the heater at the time of printing is 150 ˚C to 180 ˚C. This temperature is maintained by controlling the on and off operation of heater according to the input of the thermister converted into analogue-digital (A/D) values by the CPU.

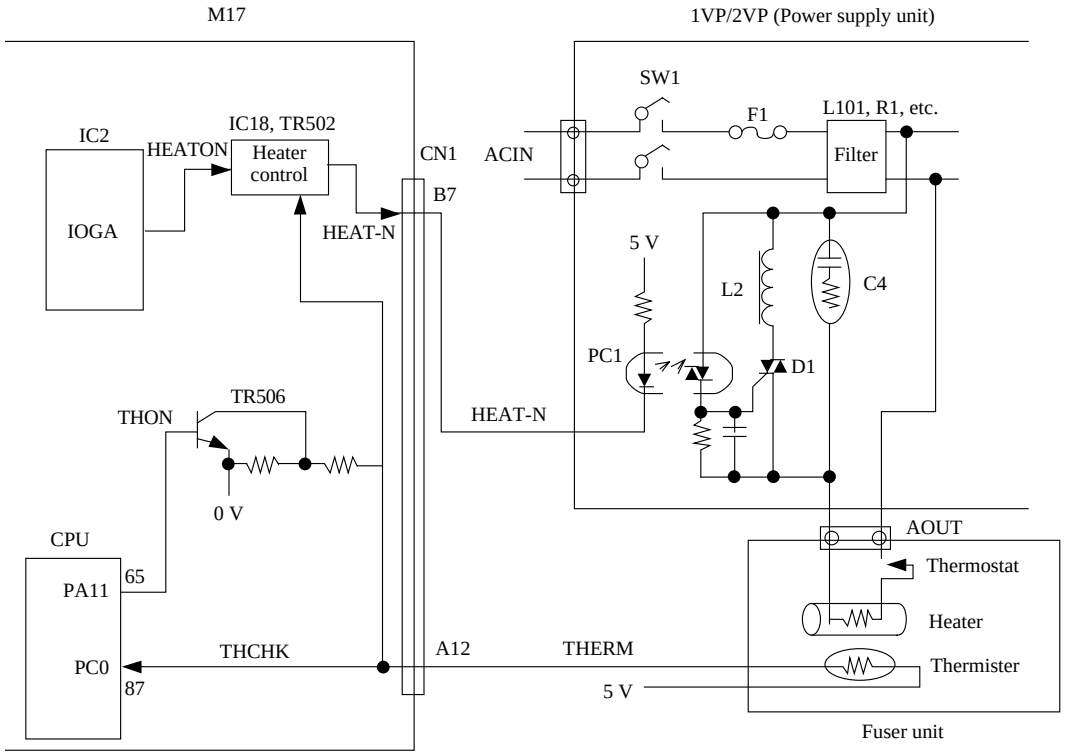

Figure A3.2.18 Fuser Unit Temperature Control

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3) High-voltage and medium-voltage control

High voltages are activated by IOGA3 and generated by the high-voltage circuit inside the power supply unit. The CH (charge) voltage of about -1.35 kV is used for the charge roller. The TR1/TR2 (transfer) voltage of about +3.5 kV/-0.75 kV is used for the transfer roller.

Medium voltages are activated by IOGA3 and generated by the medium-voltage circuit inside the power supply unit. The SB1/SB2 (toner supply) voltage of about +0 V/-450 V is used for the toner supply roller. The DB1/DB2 (developping) voltage of about +300 V/-300 V is used for the developing roller. The CB (cleaning) voltage of about +400V is used for the cleaning roller.

Figure A3.2.19 shows high/medium voltages control.

* Signals used to control the high/medium-voltages are listed below.

Signal Name	Description
CHPWM	P.W.M : CH is output.
DB1ENB	"1": + ive polarity voltage of DB1/SB1 is output.
DB2ENB	"1": - ive polarity voltage of DB2/SB2/CB is output.
TR1PWM	P.W.M : TR1 is output.
TR2PWM	P.W.M : TR2 is output.
DBPWM	P.W.M : DB/SB/CB is output.

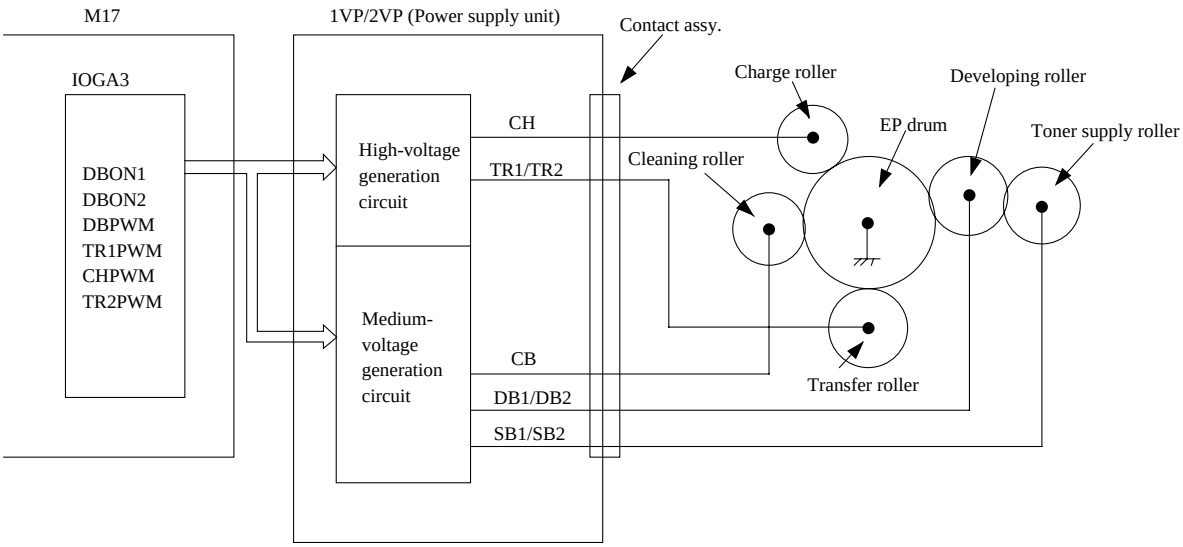

Figure A3.2.19 High/Medium Voltage Control

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A3.2.14 M17 Circuit Diagram (Page 15/17)

1. Block diagram

The circuit diagram shown on page 15/17 consists of the following connector:

- Connector CN13 that provides an interface between M17 board and optional memory board.
- Connector CN12 and CN17 that provides an interface between M17 board and CTR (PC interface) board.

Figure A3.2.20 shows the interface between M17 and memory board.
Figure A3.2.21 shows the interface between M17 and PC interface board.

Note 1: One of 1 Mbyte or 2 Mbyte memory board can be added to the memory capacity for OKIFAX 5500/5600.
1M byte for OKIFAX 5200/5300.

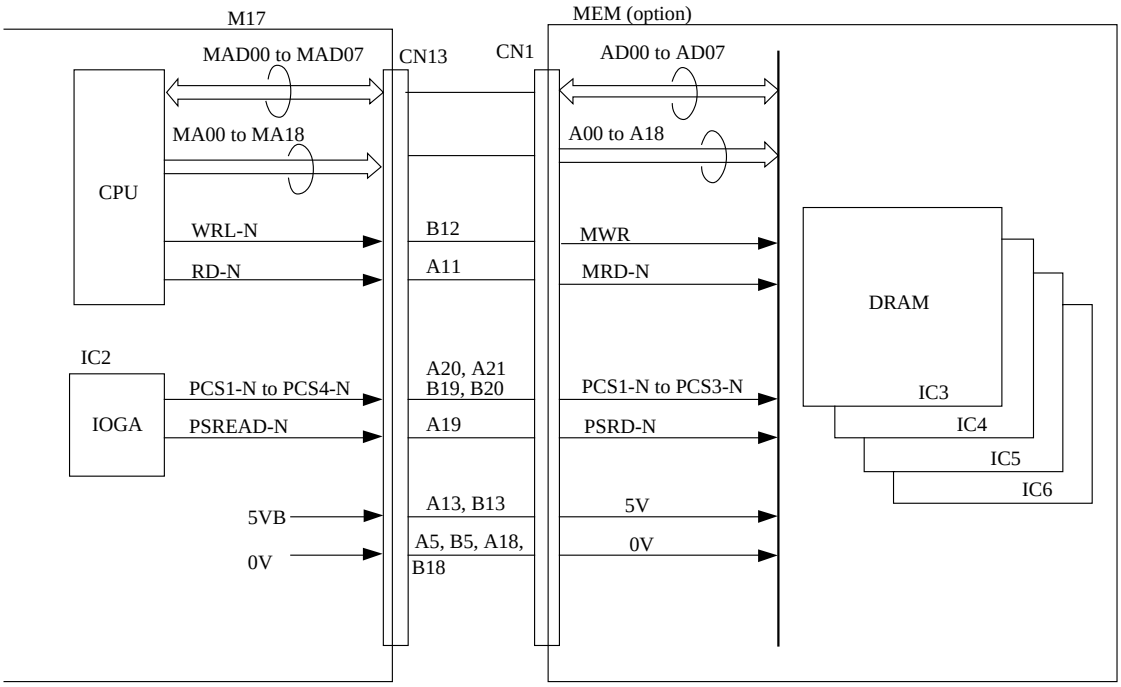

Figure A3.2.20 Interface between M17 Board and Memory Board (option)

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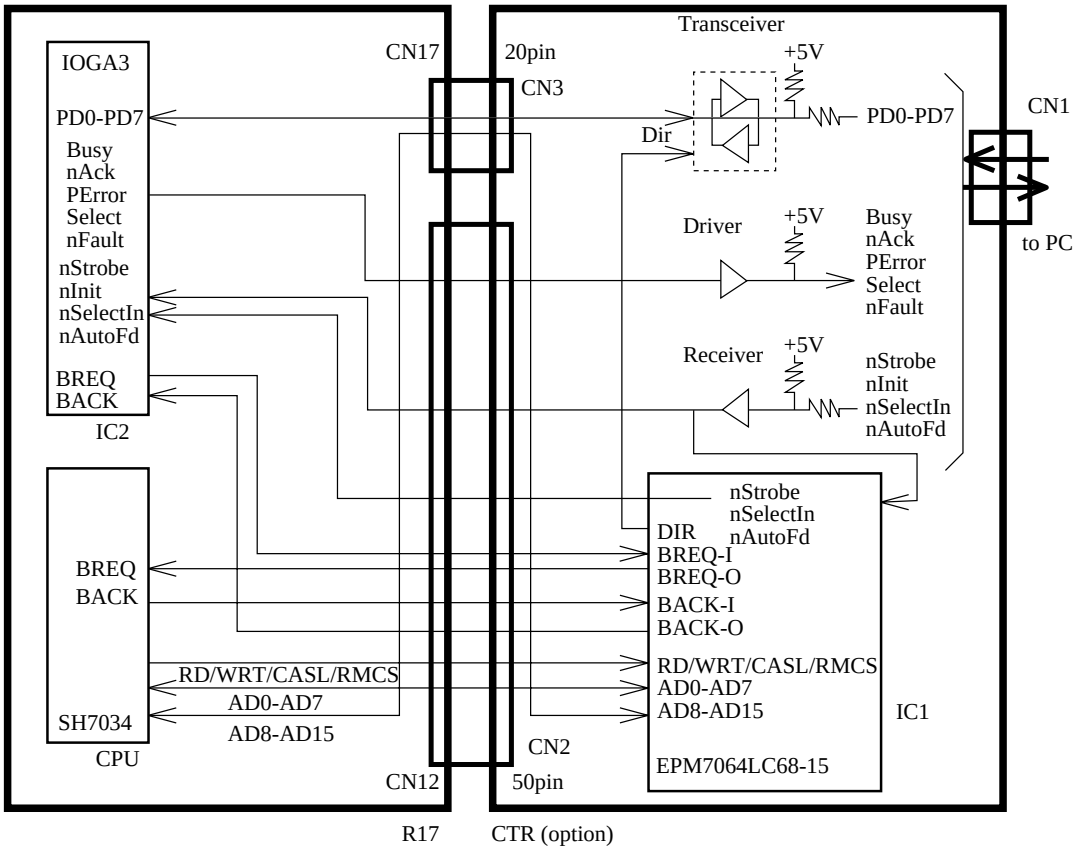

Figure A3.2.21 Interface between M17 Board and CTR Board (PC interface unit)

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A3.2.15 M17 Circuit Diagram (Page 16/17)

1. Block diagram

The circuit diagram shown on page 16/17 consists of the following functions and connectors:
- RAM3 to RAM5

Figure A3.2.22 shows the block diagram of DRAM.

2. Function

1) PSRAM
2 MByte DRAM x 1 (RAM3) for ODA version

512 KByte DRAM x 2 (RAM4 and RAM5) for INT'L version
- Used as follows:
  Picture memory for the ECM send/receive modes.
  Picture memory for the memory transmission mode.
  Picture memory for the retransmission mode.
  Picture memory for the reception in memory.
  Editing for report printing.

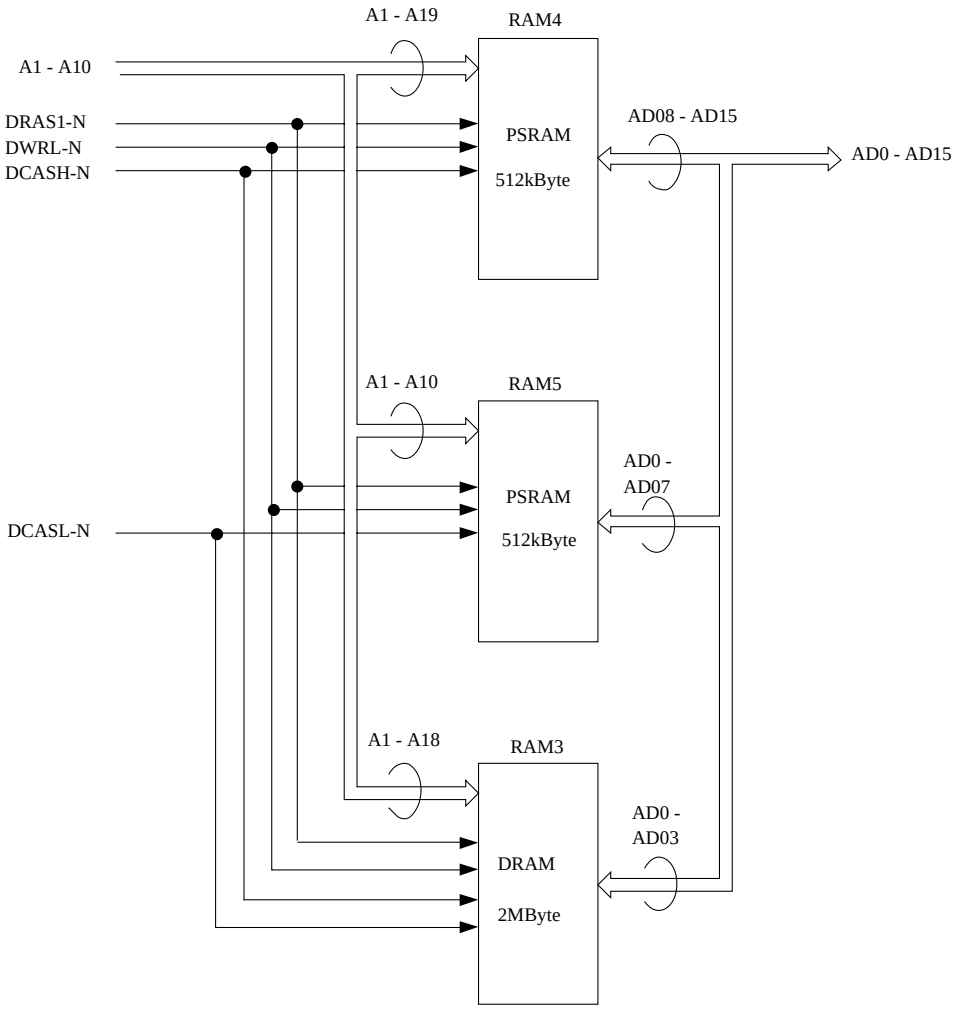

Figure A3.2.22 Block Diagram of DRAM

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A3.3 OPE (04W) Circuit Diagram for OKIOFFICE 44/OKIFAX 4100

1. Block diagram

   Figure A3.3.1 shows a block diagram of OPE (04W).

   The 04W (operation unit) circuit consists of the following blocks:

   1) IC1 (one chip MOS-CPU)

      - Output ports
        Setting LEDs on and off: 8 ports
        Specifies the row during key switch matrix scanning: 8 ports
      - Input ports
        Detect the column whose key is pressed: 8 ports

   2) Key switch matrix (8 rows x 8 columns)

   3) LEDs (8 LEDs)

   4) LCD unit

2. Key switch scanning

   Output ports (KSCAN0 to KSCAN7 signal) corresponding to 8 rows of key matrix are scanned sequentially by the software. In the case 1 is any of output from KSCAN0 to KSCAN7 signal which corresponds to the row 8 in the block diagram, the software reads input port, KSENS0 to KSENS7, and determines which in the row 8 is pressed.

3. LED drives and LEDs

   Eight LEDs (ALARM, PHOTO, LIGHT, etc.) on the control panel are driven by output of IC1 via resistors R1, R4-9 and R11 respectively. An LED lights on when a port output is 1.

4. In case sub-power supply is applied to the fax machine: when PC1-N, HUP-N or RIINT signal is input to OPE unit, OPE unit controls the main power supply (TLHV board) by outputting the MP/OFF (ACON) signal.

   - PC1-N: Presence of document on hopper
   - HUP-N: OFF-Hook detection for TEL 1 and TEL 2 terminal
   - RIINT: Ringing detection signal

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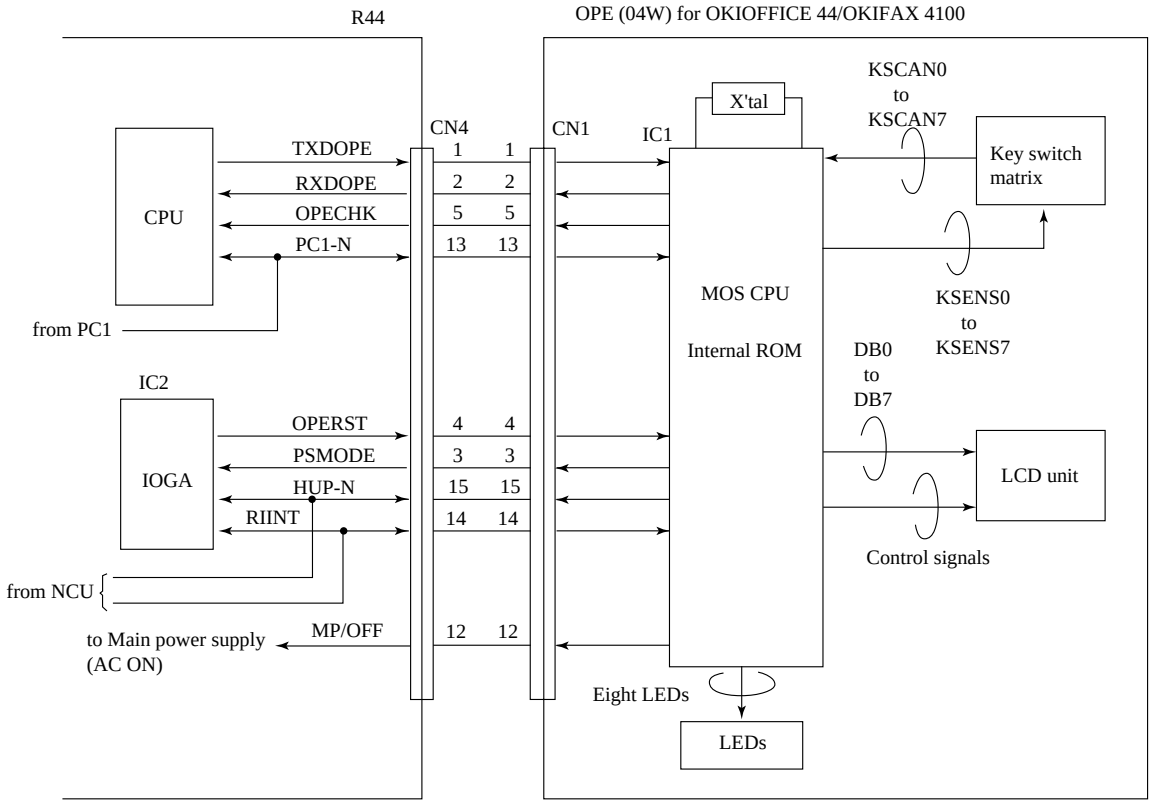

Figure A3.3.1 Block Diagram of OPE (operation unit)

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A3.4 OPE (05W) Circuit Diagram for OKIFAX 5000 Series

1. Block diagram

   Figure A3.4.1 shows a block diagram of OPE (05W).

   The O5WH (operation unit) circuit consists of the following blocks:

   1) IC1 (one chip MOS-CPU)

      - Output ports
        Setting LEDs on and off: 8 ports
        Specifies the row during key switch matrix scanning: 8 ports
      - Input ports
        Detect the column whose key is pressed: 8 ports

   2) Key switch matrix (8 rows x 8 columns)

   3) LEDs (8 LEDs)

   4) LCD unit

2. Key switch scanning

   Output ports (KSCAN0 to KSCAN7 signal) corresponding to 8 rows of key matrix are scanned sequentially by the software. In the case 1 is any of output from KSCAN0 to KSCAN7 signal which corresponds to the row 8 in the block diagram, the software reads input port, KSENS0 to KSENS7, and determines which in the row 8 is pressed.

3. LED drives and LEDs

   Eight LEDs (ALARM, PHOTO, LIGHT, etc.) on the control panel are driven by output of IC1 via resistors R1, R4-9 and R11 respectively. An LED lights on when a port output is 1.

4. In case sub-power supply is applied to the fax machine: when PC1-N, HUP-N or RIINT signal is input to OPE unit, OPE unit controls the main power supply (120/230 board) by outputting the MP/OFF (ACON) signal.

   - PC1-N: Presence of document on hopper
   - HUP-N: OFF-Hook detection for TEL 1 and TEL 2 terminal
   - RIINT: Ringing detection signal

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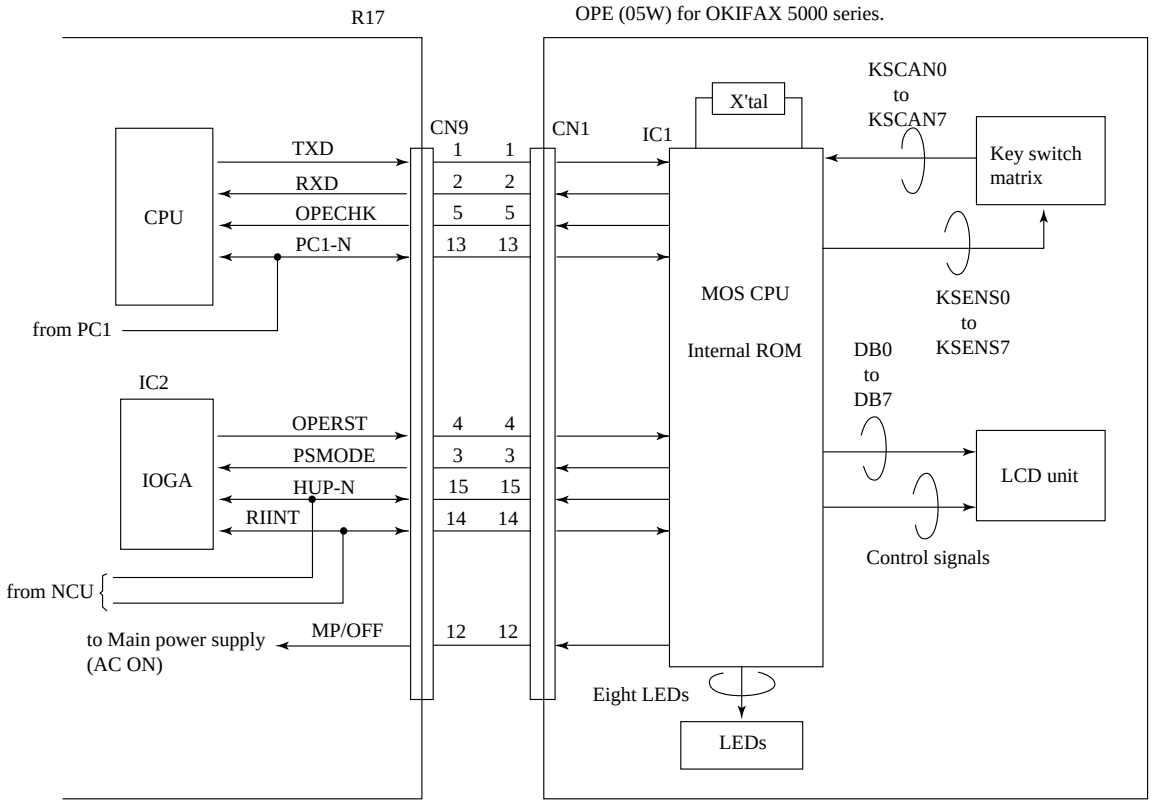

Figure A3.4.1 Block Diagram of OPE (operation unit)

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A3.5 Power Supply Unit for OKIOFFICE 44/OKIFAX 4100

A3.5.1 048 POW (120V/230V) Circuit Diagram

IMPORTANT:
Oki Data Corporation recommends that maintenance of the Power supply unit (048 POW board) be performed by replacement of a unit, not by replacement of components.

Therefore,
1) circuit descriptions in this section are for reference.
2) orders for components of the power supply unit cannot always be accepted.

Functions of unit:

048 POW circuit generates the following direct currents (DC) based on the alternating current,
AC 120 V +6%, -15%
AC 230 V +15%, -14%

1. Low-voltage power supply circuit

   This circuit generates the following voltages.

Output Voltage	Output Voltage
+5 V	Logic circuit supply voltage (IC, LSI), and high-voltage source voltage
-8 V	CIS (contact image sensor)
+24 V	Send motor, drum motor, fan drive, flash memory, CIS, and clutch

2. Input ratings

   - Voltage : AC 120 V+6%, -15% (AC 102 V to 127 V)
     AC 230 V+15%, -14% (AC 198 V to 264 V)
   - Frequency : 50 Hz/60 Hz +/-2%

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3. Output ratings

Pin No.	Rated Voltage	Rated Current	Current Range	Voltage Range	Output Ripple	Output Noise
CN3-1 to 3	+5V	1.2A	0.2 to 3.9A	5V ± 4%	100 mVP-P	250 mVP-P
CN3-8	+24V	1.0A	0 to 1.0A	24 to 38V	500 mVP-P	—
CN3-9	-8V	0.1A	0 to 0.1A	-6.5 to -12V	100 mVP-P	250 mVP-P
CN3-12	+5VS	20mA	15 to 50mA	-5 ± 4%	100 mVP-P	250 mVP-P

4. Block diagram

Figure A3.5.1 shows a block diagram of 048 POW.

* The information contained herein can change without notice owing to product and/or technical improvements.

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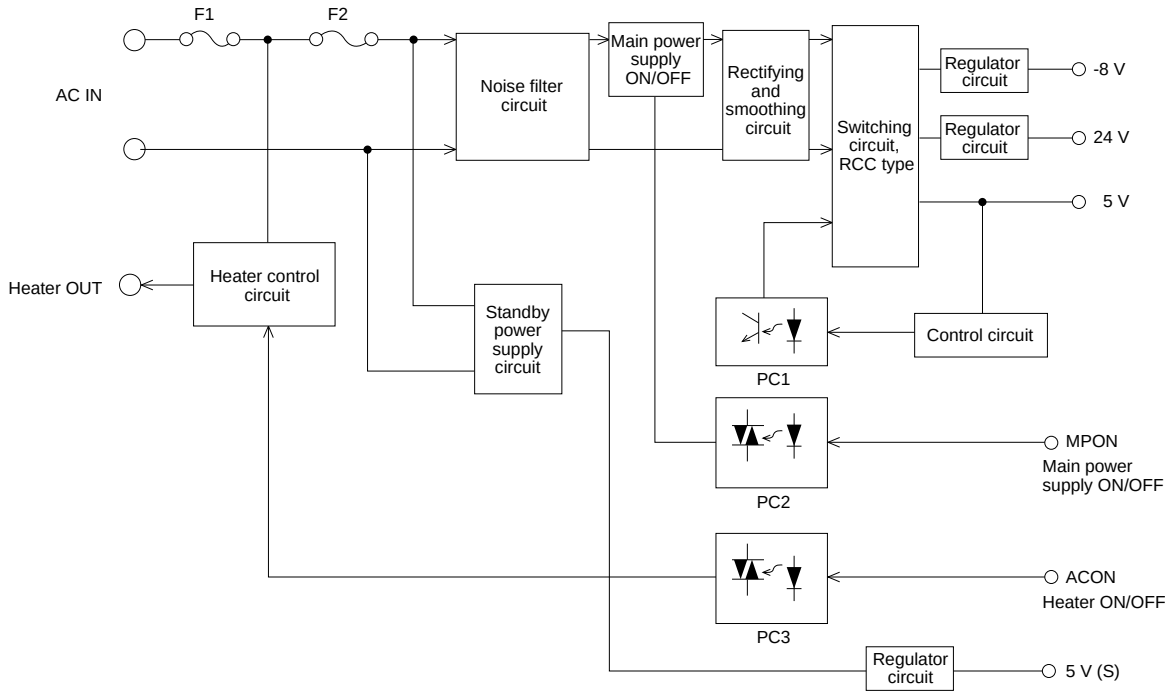

Figure A3.5.1 Block Diagram of 048 POW

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Explanation on Operation

(1) Noise filter circuit
The noise filter consists of L and C to reduce the normal mode noise and common mode noise incoming from the AC line.

(2) Rectifying and smoothing circuit
The input AC voltage is rectified by diodes D1 to D4 and smoothed by capacitor C6 for DC voltage supply to the inverter. The rash current at power ON is prevented by TH1.

(3) Switching circuit (RCC type)
This flyback converter (RCC) type switching circuit converts the DC input current to a high frequency pulse train by switching Q1 ON and OFF. Energy is accumulated in the primary winding of transformer T1 during the Q1 OFF period, and the accumulated energy is released to the secondary side in the OFF period for power supply. On/OFF control is performed by gate voltage control by Q3 via photocoupler PC1 from 5V output.
The overcurrent protection circuit is actuated upon rise in the Q3 base voltage through ZD2 when the voltage of the bias winding as positive feedback rises due to the rise in the load current. When a voltage exceeding the zenor voltage of ZD4 and ZD5 is input, ZD4 and ZD5 become conductive to actuate the overvoltage protection circuit.
If the input voltage is excessive, ZD4 and ZD5 are broken down in the short mode to operate the overcurrent protection circuit to reduce the output voltage.
The overcurrent protection circuit is automatically reset after the overcurrent state is eliminated.
If ZD4 and ZD5 are broken down by shorting, they should be replaced for recovery from the overvoltage state.

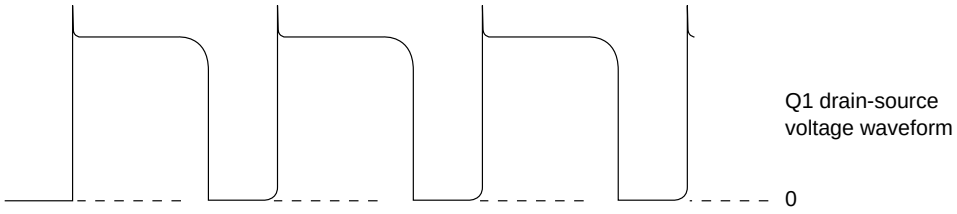

Fig. 1

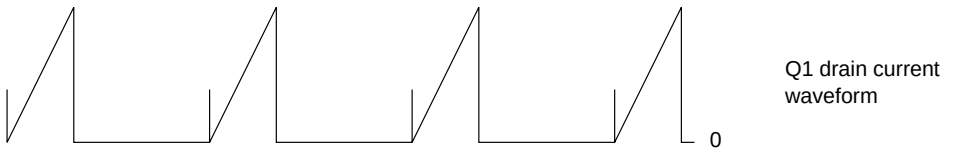

Fig. 2

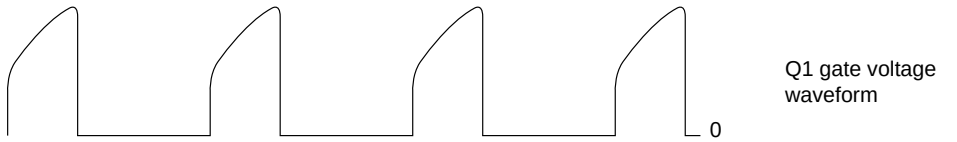

Fig. 3

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(4) 5V output circuit

The 5V output is supplied by rectification and smoothing of the output of transformer T1 by means of diode D8, capacitor C16, choke coil L3 and capacitor C17. Variable resistor VR1 is used for adjusting the output voltage level.

(5) –8V and 24V output regulator circuits

The -8V output is stabilized by regulator IC2 after rectification and smoothing of transformer T1 output by diode D10 and capacitor C19.

The 24V output is stabilized by Q4, ZD3 and ZD6 after rectification and smoothing of transformer T1 output by diode D9 and capacitor C22.

(6) Standby power supply circuit (series power supply system)

Since this power supply is provided for saving of power consumption in the standby state, it is active until the MPON signal rises to the high level. The AC output dropped by low-frequency transformer T2 is rectified and smoothed by D11 to D14 and C26, which is then stabilized by regulator IC3 to supply 5 V(S).

When the MPON is set to high, TRC2 is turned ON to activate the switching circuit.

(7) Heater control circuit

The ACON control signal on the secondary side is transmitted to the primary side via PC3 to turn triac TRC1 ON for AC voltage supply to the heater.

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A3.5.2 OLHV/TLHV Circuit Diagram (2/2)

This circuit consists of photo-sensors and high voltage generation unit.

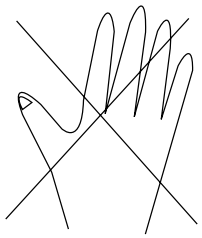
Note: If the high-voltage unit inside the OLHV/TLHV circuit board is replaced, the output voltage and current output from the terminals must be checked and adjusted. This section does not describe the checking and adjustment methods, however.

DANGER:

DANGER

Do Not
Touch !

HIGH VOLTAGE



You may be subjected to high-voltage electric shock by touching the following parts without an insulating material:

a. High-voltage unit

b. Contact ass'y

High voltage outputs are connected to the contact ass'y as shown below:

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5-6 High-voltage section

5-6-1 Functional overview

The high-voltage outputs consist of TR1 (3.5 kV), TR2 (-0.75 kV), DB1 (+300 V), DB2 (-300 V), SB2 (-450V), CB (+400 V) and CH (-1.35 kV) and are obtained as follows. The control signal obtained from IOGA of R44 board is applied to High-voltage power supply circuit. As result, the driver current is applied to the drive circuit, which will provide the high-voltage outputs.

Note:

Signal Name	Output Voltage	Application
SB1/SB2	0±5 V/-450 V	Voltage applied to toner supply roller.
DB1/DB2	+300 V/-300 V	Voltage applied to developing roller.
TR1/TR2	+3.5 kV/-0.75 kV	Voltage applied to transfer roller.
CH	-1.35 kV	Voltage applied to charging roller.
CB	+400 V	Voltage applied to cleaning roller.

5-6-2 SB2, DB1, DB2 and CB

1) These four high-voltage outputs are obtained from the flyback voltage of Q10.

2) The positive and negative voltages of DB1 and DB2 are obtained by switching the charging direction under the triac and thyristor.

3) Feedback is not applied to these outputs. However, SB2 is limited by D85 and DB2 is limited by D84 so as not to provide an output exceeding a preset voltage.

5-6-3 TR1 and TR2

1) The TR1 high-voltage is obtained by rectifying the secondary output of Q17 switching circuit by a voltage-doubler rectifier.

2) TR1 output circuit has both constant current (hereinafter called CC) and constant voltage (hereinafter called CV) modes.

3) At first, TR1 output circuit operates in the CC mode. Once the voltage determined by parameters such as roller and medium is obtained, this circuit changes to operate in the CV mode by the control signal.

4) The TR2 output voltage is regulated by keeping the voltage obtained by switching operation of Q15 at a constant voltage by D66 and D65.

5-6-4 CH

1) The CH output voltage is stabilized by keeping the primary flyback voltage obtained by switching operation of Q16 at a constant voltage by D76 and D82.

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5-7 Photosensors

The photosensors mounted on this circuit board/sensor board supervise the paper running state during printing. These four photosensors are used in this printer as listed below. All of their outputs enter IOGA for referring to and processing by the CPU.

1) PS1 (photosensor 1): TNRSNS

Detects the lack of the toner.

2) PS2 (photosensor 2): PSIN

Detects the leading part of the paper and gives the supervision timing for switching from hopping operation to feeding operation. Supervises the paper running state and the paper size according to the paper arrival time and running time.

3) PS3 (photosensor 3): PSOUT

Supervises the paper feed according to the time of arrival at the sensor and the time of passage of paper.

4) PS4 (photosensor 4): WRSNS

Detects the leading part of sensor.
Supervises the paper running state.

5-8 Cover open circuit

The cover open circuit consists of CVSW. When the Cover-Main is opened, the cover open microswitch (CVSW) on the OLHV/TLHV board is turned off to cut the supply of H5V to the high-voltage power supply circuit. As a result all high-voltage outputs are interruptted. At the same time, the CVOPN-N signal is sent to the control board to notify it the off state of the microswitch, and the control board performs the cover open processing.

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A3.6 Power Supply Unit for OKIFAX 5000 Series

A3.6.1 1VP (for 120 V)/2VP (for 230 V) Circuit Diagram (1/2)

IMPORTANT:
Oki Data Corporation recommends that maintenance of the Power supply unit (1VP/2VP board) be performed by replacement of a unit, not by replacement of components.

Therefore,
1) circuit descriptions in this section are for reference.
2) orders for components of the power supply unit cannot always be accepted.

Functions of unit:

1VP/2VP circuit generates the following direct currents (DC) based on the alternating current,
AC 120 V +6%, -15%
AC 230 V +15%, -14%

1. Low-voltage power supply circuit

   This circuit generates the following voltages.

Output Voltage	Output Voltage
+5 V	Logic circuit supply voltage (IC, LSI), and high-voltage source voltage, etc.
+8 V	CIS (contact image sensor)
-8 V	CIS (contact image sensor)
+30 V	Send motor, drum motor, resist motor, fan drive, flash memory, CIS, and second tray voltage

2. Input ratings

   - Voltage : AC 120 V+6%, -15% (AC 102 V to 127 V)
     AC 230 V+15%, -14% (AC 198 V to 264 V)
   - Frequency : 50 Hz/60 Hz +/-2%

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3. Output ratings

Transformer type B

Pin No.	Rated Voltage	Rated Current	Current Range	Voltage Range	Output Ripple	Output Noise
CN3-B11-B13 A13	+5 V	1.8 A	0.2 to 4.5 A	5 V ± 4%	100 mVP-P	250 mVP-P
CN3-A15, B15	+30 V	1.20 A	0 to 1.20 A	—	4.0 VP-P	—
CN3-A14	+8 V	0.1 A	0 to 0.1 A	6.5 to 15 V	3.0 VP-P	3.6 VP-P
CN3-B14	-8 V	0.1 A	0 to 0.1 A	-15 to 6.5 V	3.0 VP-P	3.6 VP-P

4. Block diagram

Figure A3.6.1 shows a block diagram of 1VP (120V)/2VP (230V).

Note: The differences between 1VP (AC120V) and 2VP (AC230V) board are shown in the following table.

Symbol	1VP board	2VP board	Remarks
INLET Ass'y	4YS4011-2894P001	4YS4011-2894P002	
F1	51MS063L	19181-5A	
F2	51MS016L	Not mounted	
F3	GGS 3.15	21702.5	
T1 (Transformer 1)	4YB4049-7082P1	4YB4049-7083P1	
C1, C2, C56 and C242	Not mounted	Mounted	
R18, R51, R52 and R125	Not mounted	Mounted	

* The information contained herein can change without notice owing to product and/or technical improvements.

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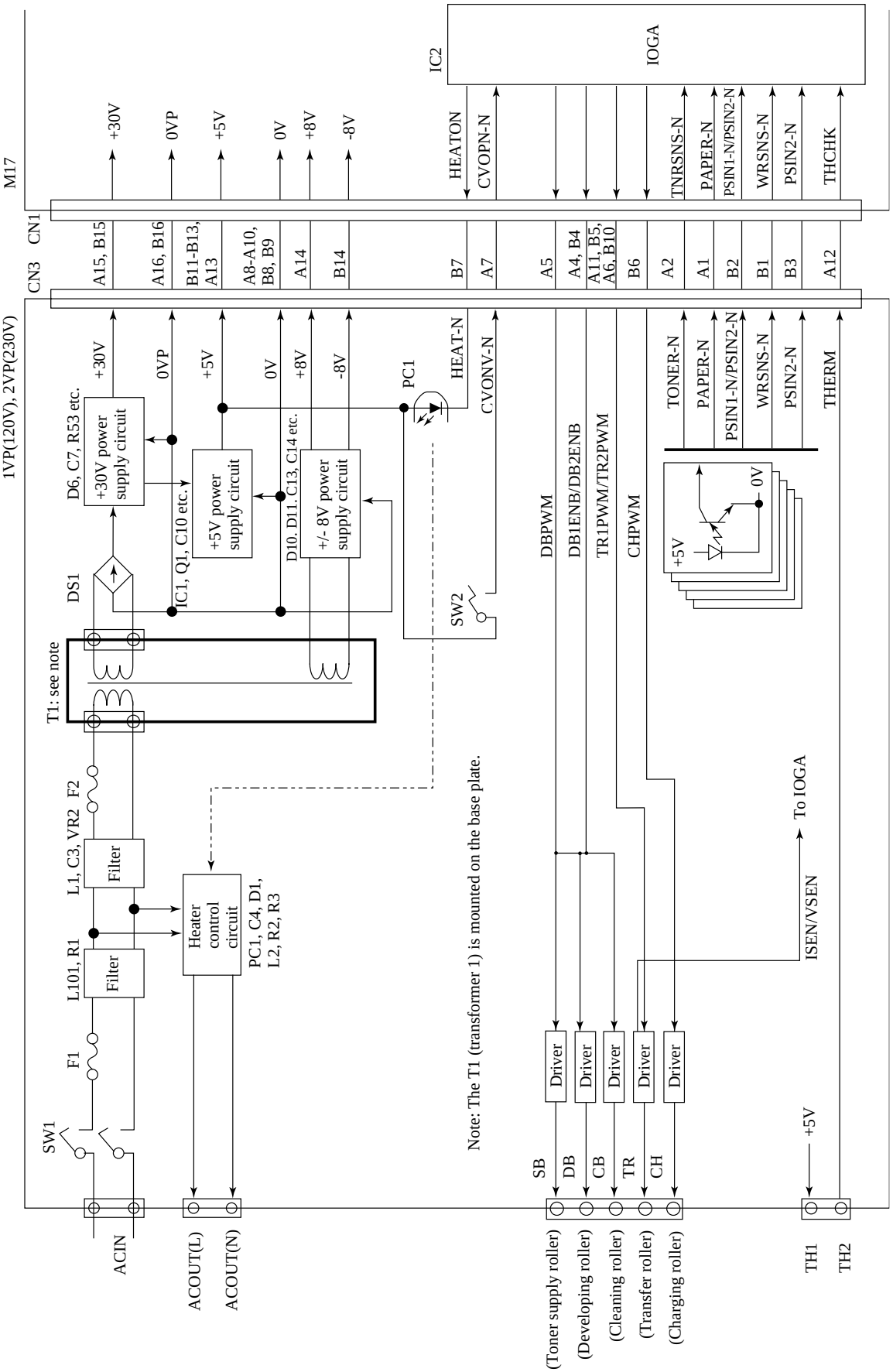

Figure A3.6.1 Block Diagram of PWU (power supply unit)

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5. General functional description

5-1 General

The power supply unit consists mainly of AC transformer and a power PCB (1VP board for AC120V/2VP board for AC230V). A block diagram of the power supply unit is shown in Figure A3.6.1 The power PCB is composed of five main circuits: AC input section, heater control section, low-voltage section, high-voltage section and protection circuit.

The low-voltage section provides a +5V output by a DC-DC converter and other output voltages (+30V, +8V and -8V) simply by rectifying and smoothing the respective outputs of the AC transformer. The high-voltage section (TR1, TR2, DB1, DB2, SB1, SB2, CB and CH) produces a flyback voltage from 5V by using a drum coil and a high-voltage transformer.

5-2 Circuit description

5-2-1 AC input section

1) AC commercial power is supplied to line filter circuit through the AC inlet, power switch (SW1) and the fuse (F1). Fuse F1 is used for protecting the heater circuit.

2) The filter circuit consists of L101,R1, C1, C2, C3 and L1. Capacitors C1 and C2 are not mounted in the power unit for 120VAC input.

3) Fuse F2 is used for protection for the double voltage input in the power supply unit for 120VAC input and will not blow by shorting or opening the secondary circuit. This fuse F2 is not mounted in the power supply unit for 230VAC input.

5-2-2 Heater control circuit

1) The AC power divided from the AC input section passes through L2 for noise elimination and is fed to the heater via D1 (operating as a switch) from the power PCB.

2) The on/off operation of D1 is controlled by the operation of photocoupler PC1 whose operation is controlled by the HEAT-N signal applied to CN3-B7 pin from the control PCB (M17 board).

3) Resistors R2 and R3 connected on the AC side of PC1 are fuse resistors to protect themselves from firing when PC1 turns on in the event of D1 open failure.

5-3 Low-voltage section

5-3-1 +30 V circuit

1) The +30 V circuit provides +30 V output by rectifying the corresponding output of transformer T1 by a rectifier diode DS1 and smoothing the rectified signal by capacitor C7.

2) Resistor R53 is used to discharge the elecetric charge of C7 when the power switch (SW1) turned off.

5-3-2 +/- 8 V circuit

1) The +/- 8 V circuit provides +8 V and -8 V outputs by rectifying the corresponding output of transformer T1 by rectifier diodes D10 and D11 and smoothing the rectified signals by capacitors C13 and C14.

2) Resistors R22 and R23 are used to discharge the electric charge of C13 and C14 when the power switch (SW1) is turned off.

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5-3-3 +5 V circuit

1) +5 V circuit provides +5 V output by lowering +30 V output by means of DC-DC concerter circuit.

2) IC1 is a control IC of frequency fixed type (operating at about 30 kHz in present power supply unit)

3) Q1 is a power transistor, D7 is a flywheel diode, and L3 , C10 and C20 compose a smoothing circuit.

4) The +5 V output is regulated as follows. The rectified +5 V is divided by resistors R83, R10 and R11 and the resulting voltage is applied to IC1, in which this voltage is regulated to a constant voltage. Thus, the regulated +5 V output is obtained by controlling IC1.

5-4 Protection circuits

1) The protection circuit includes fuse F3 for +30 V and +5 V overcurrent protection circuit.

2) If an overvoltage is applied to the +5 V circuit, D8, R9 and D6 operate to shortcircuit the +30 V circuit for half-wave cycle and fuse F3 will blow.

3) F1 will blow only in the event of AC line shortcircuit.

5-5 Cover open circuit

1) The cover open circuit consists of SW2. When the stacker cover is opened, the cover open microswitch (SW2) on the 1VP/2VP board is turned off to cut the supply of H5V to the high-voltage power supply circuit. As a result all high-voltage outputs are interruptted. At the same time, the CVOPN-N signal is sent to the control board to notify it the off state of the microswitch, and the control board performs the cover open processing.

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A3.6.2 1VP (for 120 V)/2VP (for 230 V) Circuit Diagram (2/2)

This circuit consists of photo-sensors and high voltage generation unit.

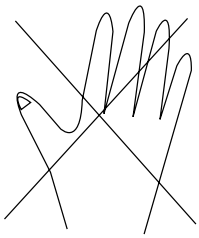
Note: If the high-voltage unit inside the 1VP/2VP circuit board is replaced, the output voltage and current output from the terminals must be checked and adjusted. This section does not describe the checking and adjustment methods, however.

DANGER:

DANGER

Do Not
Touch !

HIGH VOLTAGE



You may be subjected to high-voltage electric shock by touching the following parts without an insulating material:

a. High-voltage unit

b. Contact ass'y

High voltage outputs are connected to the contact ass'y as shown below:

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5-6 High-voltage section

5-6-1 Functional overview

The high-voltage outputs consist of TR1 (3.5 kV), TR2 (-0.75 kV), DB1 (+300 V), DB2 (-300 V), SB2 (-450V), CB (+400 V) and CH (-1.35 kV) and are obtained as follows. The control signal obtained from IOGA of M17 board is applied to High-voltage power supply circuit. As result, the driver current is applied to the drive circuit, which will provide the high-voltage outputs.

Note:

Signal Name	Output Voltage	Application
SB1/SB2	0±5 V/-450 V	Voltage applied to toner supply roller.
DB1/DB2	+300 V/-300 V	Voltage applied to developing roller.
TR1/TR2	+3.5 kV/-0.75 kV	Voltage applied to transfer roller.
CH	-1.35 kV	Voltage applied to charging roller.
CB	+400 V	Voltage applied to cleaning roller.

5-6-2 SB2, DB1, DB2 and CB

1) These four high-voltage outputs are obtained from the flyback voltage of Q10.

2) The positive and negative voltages of DB1 and DB2 are obtained by switching the charging direction under the triac and thyristor.

3) Feedback is not applied to these outputs. However, SB2 is limited by D85 and DB2 is limited by D84 so as not to provide an output exceeding a preset voltage.

5-6-3 TR1 and TR2

1) The TR1 high-voltage is obtained by rectifying the secondary output of Q17 switching circuit by a voltage-doubler rectifier.

2) TR1 output circuit has both constant current (hereinafter called CC) and constant voltage (hereinafter called CV) modes.

3) At first, TR1 output circuit operates in the CC mode. Once the voltage determined by parameters such as roller and medium is obtained, this circuit changes to operate in the CV mode by the control signal.

4) The TR2 output voltage is regulated by keeping the voltage obtained by switching operation of Q15 at a constant voltage by D66 and D65.

5-6-4 CH

1) The CH output voltage is stabilized by keeping the primary flyback voltage obtained by switching operation of Q16 at a constant voltage by D76 and D82.

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5-7 Photosensors

The photosensors mounted on this circuit board/sensor board supervise the paper running state during printing. These six photosensors are used in this printer as listed below. All of their outputs enter IOGA for referring to and processing by the CPU.

1) PS1 (photosensor 1): PSOUT

   Supervises the paper feed according to the time of arrival at the sensor and the time of passage of paper.

2) PS2 (photosensor 2): WRSNS

   Detects the leading part of sensor.
   Supervises the paper running state.

3) PS3 (photosensor 3): PSIN1

   Detects the leading part of the paper and gives the supervision timing for switching from hopping operation to feeding operation. Supervises the paper running state and the paper size according to the paper arrival time and running time.

4) PS4 (photosensor 4): PAPER

   Detects the end of the paper.

5) PS5 (photosensor 5): PSIN2

   Not used

6) PS6 (photosensor 6): TONER

   Detects the lack of the toner.

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A3.7 UNC, WN5, FN5 and DN5 Circuit Diagram

The NCU board is selected from UNC, WN5, FN5 and DN5 because it differs depending on country's specifications. Therefore, the NCU circuit diagram is destined for the following countries.

Note: The relationship between NCU and optional boards (NTIF, TEL, HOOK, etc.) are shown in A3.11 OKIFAX 4100/5000 series facsimile transceiver (page A3-101).

- UNC circuit diagram
  US and Canada.

- WN5 circuit diagram
  Sweden, Finland, The Netherlands, Ireland, Portugal, New Zealand, Australia, Belgium, Spain, Greece, Norway, Denmark, Italy, and other countries.

- FN5 circuit diagram
  France and UK

- DN5 circuit diagram
  Germany, Switzerland and Austria.

1. Block diagram

   - Figure A3.7.1 shows a block diagram of UNC circuit.
   - Figure A3.7.2 shows a block diagram of WN5 circuit.
   - Figure A3.7.3 shows a block diagram of FN5 circuit
   - Figure A3.7.4 shows a block diagram of DN5 circuit.

2. General functions of this circuit are as follows:

   1) Generates and detects signals to be exchanged with a telephone exchange or network in Phases A and E defined by ITU T.30.
      - Loop formation for call origination
      - Line current detection (see note 1) before call origination
      - Dial tone detection (see note 1)
      - Generation of dial pulses (see note 2)
      - Busy tone detection (see note 1)
      - Ringing signal detection

   2) Sends various data and signals from the R44/M17 board to the telephone line after amplification.
      - Picture data/Protocol/Tonal signals/PB tone, etc.

   3) Sends the following signals received from the line to the R44/M17 board as data after amplification.
      - Picture data/Protocol/Tonal signals, etc.

      Note 1: This procedure may be omitted depending on the dial parameters.
      Note 2: MF (Multi-frequency) tone is generated by the modem and transferred to the telephone line via the NCU board.

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3 Explanation on CN3 Terminals

CN3 pin No.	Terminal name	Explanation	UNC (US.CA)	WN5 (INT'L)	DN5 D.A.CH)	FN5 (F.UK)
1	REV2	Detection and output of the direction of DC line current.	*	*	*	*
2	OH2	Detection of off-hook of terminal connected to TEL-1 or TEL-2.				
3	OH1	Output upon circuit current detection after fax line seizure	*	*	*	*
4	RI	0-5V signal output synchronized with the ringing signal frequency				
5	NC	Unused terminal	*	*	*	*
6	PP	Relay control signal for special service code detection at parallel pickup or remote reception				
7,8	E	GND				
9,10	sub +5V	Sub power supply for OH2 and RI detection				
11,12	+5V	Power supply for relays and logic circuits				
13,14	+5VA	+5V power supply for analog circuit	*	*		*
15,16	S	TX Signal				
17,18	-5VA	-5V power supply for analog circuit	*	*		*
19,20	R	RX Signal				
21,22	SG	Signal ground				
23,24	Rp	Receiving sensitivity determination terminal				
25	DP	Pulse dial control signal				
26	CML	Line seizure control signal				
27	F.ICC	Loop current control signal upon line seizure	*	*	*	
28	SR	Control signal for connection between LINE and TEL terminals				
29	PBXE	Control signal for connecting one of LINE terminal to the PBXE terminal	*	*		*
30	MUTE	Control signal for pulse dial improvement and bell shunt relay	*			

Note *: Unused.

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4. Description on the NCU Block Diagram

4.1 UNC circuit diagram

① Lightning arresters (AR1, 2)
The nominal operating voltage is 350 V.
When connecting the ground of the arrestor to the chassis, tighten ARG on the PCB with a screw. At this time, the PCB is grounded through the power cable.
The TB1 arrestor ground terminal can also be used to connect to the earth directly.

④ DC circuits (R10, R11, C4)
These circuits provide DC characteristics according to the line requirements using the primary DC resistor in the line transformer T1 and the R10 and R11 resistors . The capacitor C4 bypasses AC signals.

⑤ Impedance matching network (R523, R536, C503)
This circuit matches the impedance between the line and equipment to reduce reflection of transmitted signals.

⑥ Receiving sensitivity (R574, R504)
The receiving sensitivity at line seizuring is determined by R574 and the MF tone receiving sensitivity at parallel pickup is determined by R504.

⑦ CML (RL1)
This circuit selectively switches the line between the telephone or facsimile.

⑧ SR (RL2)
This circuit connects the line with the telephone. During facsimile transmission, it disconnects the telephone.

⑪ PP (RL6)
If this circuits detects MF or CNG tones without seizuring a line, it sets a proper receiving sensitivity.

⑫ DP (RL3)
This circuit generates pulse dials.
If the circuit detects MF or CNG tones without seizuring a line, it opens to increase the impedance.

⑬ Pickup RC (R5, C31)
These circuits insert a high-impedance resistor and capacitor serially to prevent the line impedance from dropping by the line transformer T1.

⑭ Ring detectors (IC1)
These circuits detect a ring signal arriving to the line. If the input ring signal exceeds a specific voltage, the circuits output a signal having of RI the same frequency as incoming RI.

⑮ Line transformer (T1)
This circuit processes send/receive signals required for facsimile transmission, dial tone receive signals required for automatic dialing, and MF tone send and remote receive signals. It separates between the line and equipment in terms of DC and also keeps a balance between the line and the ground. The transformer on the UNC board for OKIFAX 5600 is covered with the shield case for the low-level receiving countermeasure.

⑯ Off-hook detector (IC2)
This circuit detects the off-hook state of the telephone connected to the TEL1, TEL2 through LINE terminals.

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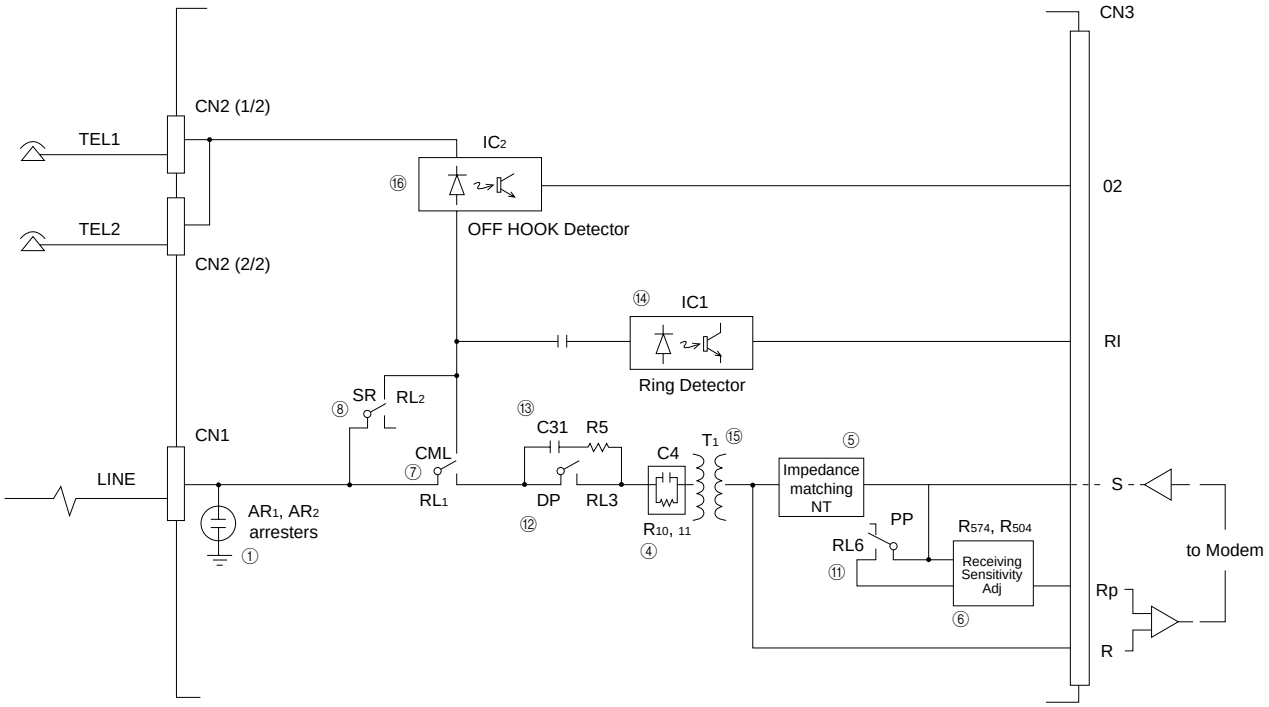

Figure A3.7.1 Block Diagram of UNC

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4.2 WN5 circuit diagram

① Lightning arresters (AR1, 2)
The nominal operating voltage is 500 V.
When connecting the ground of the arrestor to the chassis, tighten ARG on the PCB with a screw. At this time, the PCB is grounded through the power cable.
The TB1 arrestor ground terminal can also be used to connect to the earth directly.

② Loop current detector (IC4) — Optional
When a line is seizured, this circuit detects a DC loop current to notify the fact.
For detection (OH1), it outputs the low level to the nominal input current of 10 mA or more.

③ Diode bridge (DB1)
This circuit rectifies the loop current so that the DC circuit characteristics are not affected by a polarity change over the line.

④ DC circuits (Q3, R540, R541, C13, R9, R209, and R309)
These circuits provide DC characteristics according to the line requirements depending on the DIP SW (S3) position.

⑤ Impedance matching network (R523, R536, C503 ... R823, R836, C803)
This circuit matches the impedance between the line and equipment to reduce reflection of transmitted signals.
It provides impedance (return loss) characteristics to meet the line requirement using the connector keys (CN15 to CN45).

⑥ Receiving sensitivity (R537, R539...R837, R839)
The receiving sensitivity at line hunting is determined by R539 to R839 depending on the line impedance. Similarly, the MF tone receiving sensitivity at parallel pickup is determined by R537 to R837. The receiving sensitivity is set using connector keys (CN15 to CN45).

⑦ CML (RL1)
This circuit selectively switches the line between the telephone or facsimile.

⑧ SR (RL2)
This circuit connects the line with the telephone. During facsimile transmission, it disconnects the telephone.

⑨ DP (IC5)
This circuit generates pulse dial signals.

⑩ MUTE (IC7)
During pulse dialing, this circuit closes to reduce the DC loop resistance.

⑪ PP (RL6)
If this circuits detects MF or CNG tones without seizuring a line, it disconnects Impedance matching Net work (⑤) to increase the input impedance and also sets the receiving sensitivity.

⑫ MUTE (RL3)
During pulse dialing, this circuit opens to prevent pulse distortion caused by capacitor C11.
If it detects MF or CNG tones without seizuring a line, it opens to increase the impedance.

⑬ Pickup RC (R590, C31)
These circuits insert a high-impedance resistor and capacitor serially to prevent the line impedance from dropping by the line transformer T1.

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⑭ Ring detectors (IC1)
These circuits detect a ring signal arriving to the line. If the input ring signal exceeds a specific voltage, the circuits output a signal of RI having the same frequency as incoming RI.

⑮ Line transformer (T1)
This circuit processes send/receive signals required for facsimile transmission, dial tone receive signals required for automatic dialing, and MF tone send and remote receive signals. It separates between the line and equipment in terms of DC and also keeps a balance between the line and the ground.

⑯ Off-hook detectors (IC2, RL7)
These circuits detect the off-hook state of the telephone connected to the TEL1, TEL2, through LINE terminal. IC2 uses a high detection sensitivity than of RL7. In TEL/FAX mode, the higher sensitive IC2 is used to detect the off-hook state of the telephone while the main equipment is hunting a line.
Usually, IC2 is short-circuited by the CML relay (⑦) in the standby state and RL7 is used for off-hook detection.

⑰ Impedance switches (CN15 to CN45)
These circuits set the impedance according to the line requirement.
220: 220 ohm + 820 ohm//115 nF (CN15)
275: 275 ohm + 850 ohm//150 nF (CN25)
370: 370 ohm + 620 ohm//310 nF (CN35)
600: 600 ohm (CN35)

⑱ DC resistance switch (SW3)
This switch sets the DC resistance according to the line requirement.

⑲ Ring impedance switches (S1-3 to S1-6)
These switches set the ring impedance according to the line requirement.

⑳ Ring sensitivity switch (S4)
This switch sets the ring sensitivity according to the line requirement.

㉑ Telephone cascade/parallel switches (S1-1 to S1-2)
To connect the telephone connected to the TEL1 terminal and an external telephone in parallel, set the switches to ON.

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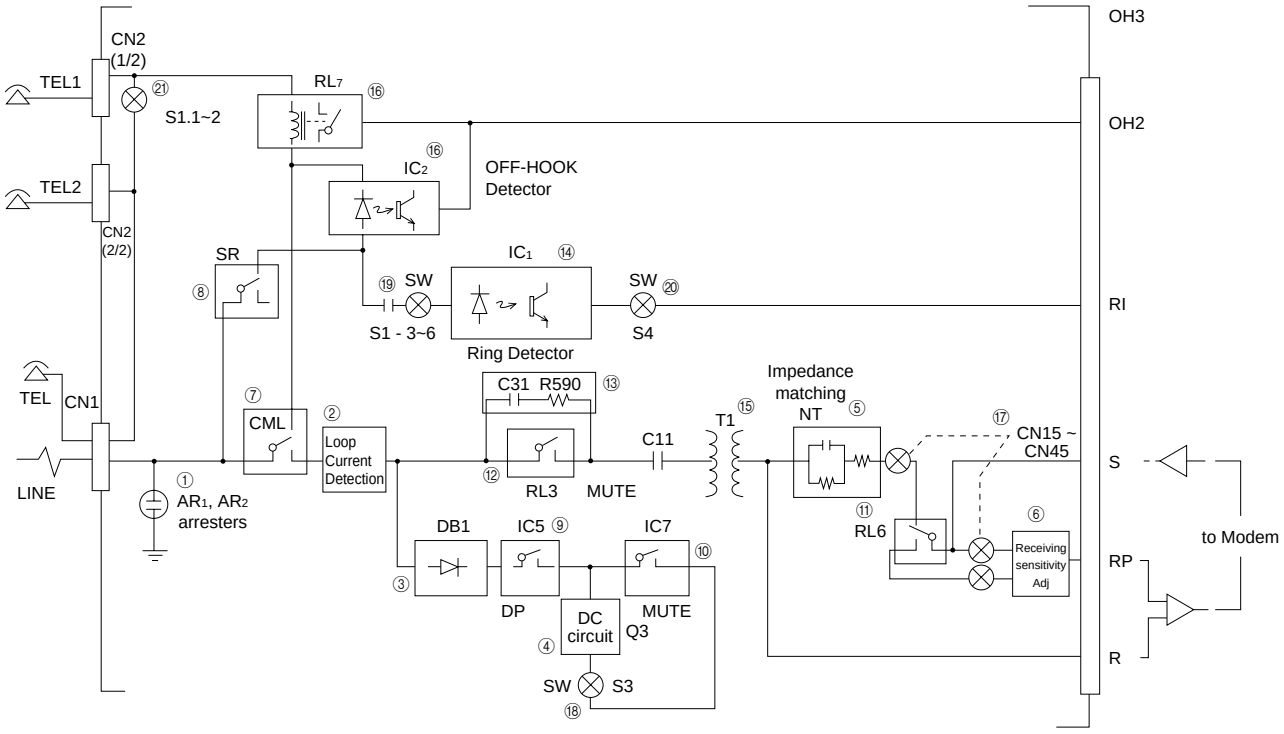

Figure A3.7.2 Block Diagram of WN5

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4.3 FN5 circuit diagram

① Lightning arresters (AR1, 2)
The nominal operating voltage is 500 V.
When connecting the ground of the arrestor to the chassis, tighten ARG on the PCB with a screw. At this time, the PCB is grounded through the power cable.
The TB1 arrestor ground terminal can also be used to connect to the earth directly.

③ Diode bridge (DB1)
This circuit rectifies the loop current so that the DC circuit characteristics are not affected by a polarity change over the line.

④ DC circuits (Q3, R540, R541, C13, R9, R209)
These circuits provide DC characteristics according to the line requirements.

⑤ Impedance matching network (R523, R536, C503, R623, R636, C603)
This circuit matches the impedance between the line and equipment to reduce reflection of transmitted signals.
It provides impedance (return loss) characteristics to meet the line requirement using the S5-1 and 5-2.

⑥ Receiving sensitivity (R537, R539, R637, R639)
The receiving sensitivity at line hunting is determined by R539 or R639 and the MF tone receiving sensitivity at parallel pickup is determined by R537 or R639.
The receiving sensitivity set using DIP switch S5-3 to S5-6.

⑦ CML (RL1)
This circuit selectively switches the line between the telephone or facsimile.

⑧ SR (RL2)
This circuit connects the line with the telephone. During facsimile transmission, it disconnects the telephone.

⑨ DP (IC5)
This circuit generates pulse dial signals.

⑩ MUTE (IC7)
During pulse dialing, this circuit closes to reduce the DC loop resistance.

⑪ PP (RL6)
When it detects MF or CNG tones without seizuring a line, it disconnects NT (⑤) to increase the input impedance and also sets the receiving sensitivity.

⑫ MUTE (RL3)
During pulse dialing, this circuit opens to prevent pulse distortion caused by capacitor C11.
When it detects MF or CNG tones without seizuring a line, it opens to increase the impedance.

⑬ Pickup RC (R590, C31)
These circuits insert a high-impedance resistor and capacitor serially to prevent the line impedance from dropping by the line transformer T1.

⑭ Ring detectors (IC1)
These circuits detect a ring signal arriving to the line. If the input ring signal exceeds a specific voltage, the circuits output a signal of RI having the same frequency as the incoming RI.

⑮ Line transformer (T1)
This circuit processes send/receive signals required for facsimile transmission, dial tone receive signals required for automatic dialing, and MF tone send and remote receive signals. It separates between the line and equipment in terms of DC and also keeps a balance between the line and the ground.

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⑯ Off-hook detectors (IC2, RL7)
These circuits detect the off-hook state of the telephone connected to the TEL1, TEL2, through LINE terminals. IC2 uses a high detection sensitivity than of RL7. In TEL/FAX mode, the higher sensitive IC2 is used to detect the off-hook state of the telephone while the main equipment is hunting a line.
Usually, IC2 is short-circuited by the CML relay (⑦) in the standby state and RL7 is used for off-hook detection.

⑰ Impedance switches (S5-1 to 5-2)
These circuits set the impedance according to the line requirement.
S5-1: 370 ohm + 620 ohm//310 nF (UK)
S5-2: 600 ohm (F)

⑱ DC resistance switches (CN26 and CN36)
These switches set the DC resistance according to the line requirement.

㉗ FICC (IC6)
This circuits reduces the DC resistance to increase the loop current momentarily to assure operation of the switch at line seizuring.

㉘ Constant current circuits (Q1 and Q2)
These circuits provide DC characteristics according to the French line requirement.

㉙ Shunt (RL5)
This circuit prevents bell resonances in the telephone sets connected in parallel during pulse dialing and also reduces distortions of the pulse waveform.

㉚ Communication line terminal switches (CN26 and CN36)
Unlike other countries, pines 2 and 5 are connected to the line for the UK communication line. Set the switches to “F” for France and “UK” for UK.

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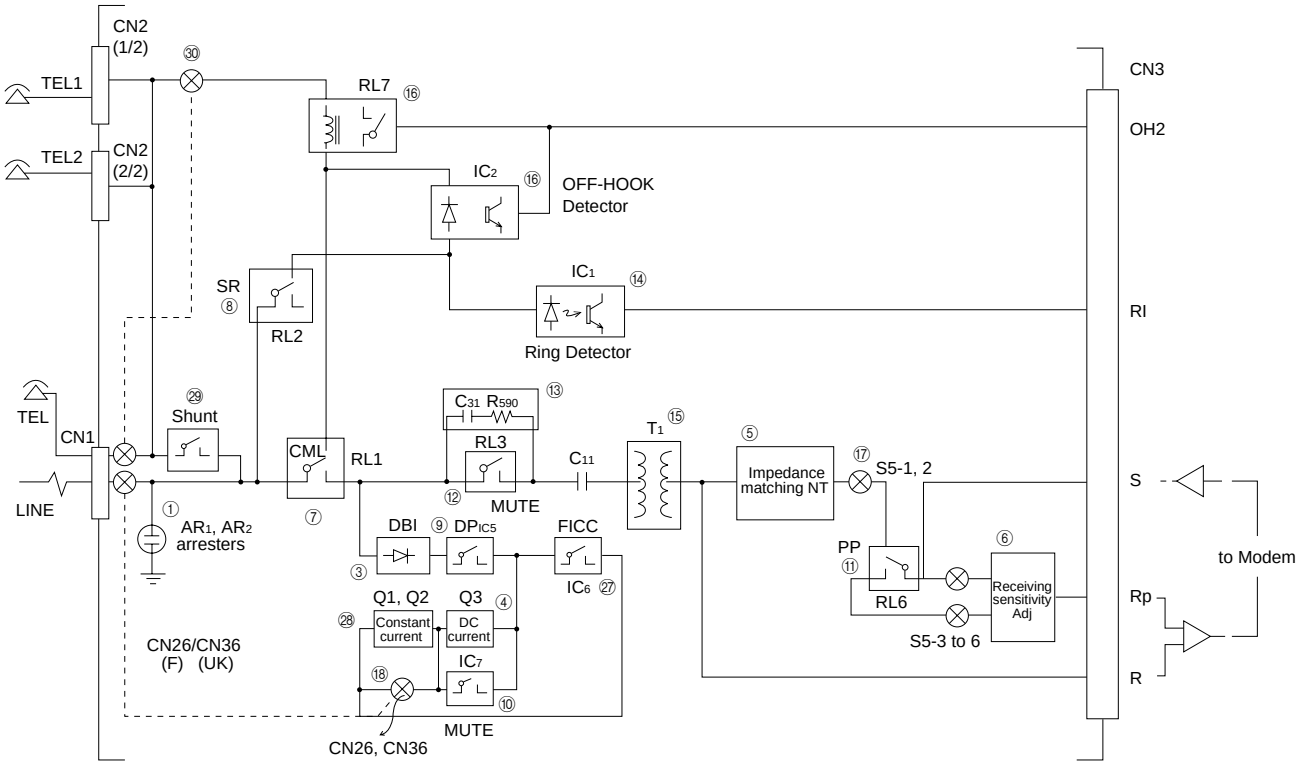

Figure A3.7.3 Block Diagram of FN5

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4.4 DN5 circuit diagram

① Lightning arresters (AR1, 2)
The nominal operating voltage is 500 V.
When connecting the ground of the arrestor to the chassis, tighten ARG on the PCB with a screw. At this time, the PCB is grounded through the power cable.
The TB1 arrestor ground terminal can also be used to connect to the earth directly.

② Loop current detector (IC4) - Optional
When a line is hunt, this circuit detects a DC loop current to notify the fact.
For detection (OH1), it outputs the low level to the nominal input current of 10 mA or more.

③ Diode bridge (DB1)
This circuit rectifies the loop current so that the DC circuit characteristics are not affected by a polarity change over the line.

④ DC circuits (Q3, R540, R541, C13, R9, R209)
These circuits provide DC characteristics according to the line requirements.

⑤ Impedance matching network (R523, R536, C503, ...)
This circuit matches the impedance between the line and equipment to reduce reflection of transmitted signals.
It provides impedance (return loss) characteristics to meet the line requirement using the S4-3 and S4-4.

⑥ Receiving sensitivity (R537, R539, R637, R639)
The receiving sensitivity at line hunting is determined by R539 to R639 depending on the line impedance. Similarly, the MF tone receiving sensitivity at parallel pickup is determined by R537 or R637.
The receiving sensitivity is set using the DIP switches S4-5 to S4-8.

⑦ CML (RL1)
This circuit selectively switches the line between the telephone or facsimile.

⑧ SR (RL2)
This circuit connects the line with the telephone. During facsimile transmission, it disconnects the telephone.

⑨ DP (IC5)
This circuit generates pulse dial signals.

⑩ MUTE (IC7)
During pulse dialing, this circuit closes to reduce the DC loop resistance.

⑪ PP (RL6)
If this circuits detects MF or CNG tones without seizuring a line, it disconnects NT (⑤) to increase the input impedance and also sets the receiving sensitivity.

⑫ MUTE (RL3)
During pulse dialing, this circuit opens to prevent pulse distortion caused by capacitor C11.
If it detects MF or CNG tones without seizuring a line, it opens to increase the impedance.

⑬ Pickup RC (R590, C31)
These circuits insert a high-impedance resistor and capacitor serially to prevent the line impedance from dropping by the line transformer T1.

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⑭ Ring detectors (IC1)
These circuits detect a ring signal arriving to the line. If the input ring signal exceeds a specific voltage, the circuits output a signal of RI having the same frequency as incoming RI.

⑮ Line transformer (T1)
This circuit processes send/receive signals required for facsimile transmission, dial tone receive signals required for automatic dialing, and MF tone send and remote receive signals. It separates between the line and equipment in terms of DC and also keeps a balance between the line and the ground.

⑯ Off-hook detectors (IC2, RL7)
These circuits detect the off-hook state of the telephone connected to the TEL1, TEL2, through LINE terminals. IC2 uses a high detection sensitivity than of RL7. In TEL/FAX mode, the higher sensitive IC2 is used to detect the off-hook state of the telephone while the main equipment is hunting a line.
Usually, IC2 is short-circuited by the CML relay (⑦) in the standby state and RL7 is used for off-hook detection.

⑰ Impedance switches (S4-3 to S4-4)
These circuits set the impedance according to the line requirement.
S4-3: 220 ohm + 820 ohm//115 nF
S4-4: 600 ohm

⑲ Ring impedance switches (S1-4)
These switches set the ring impedance according to the line requirement.

⑳ Ring sensitivity switch (S4-4, S4-2)
This switch sets the ring sensitivity according to the line requirement.

㉑ Telephone cascade/parallel switches (S1-1 to S1-2)
To connect the telephone connected to the TEL1 terminal and an external trephone in parallel, set the switches to ON.

㉒ 16 kHz LPF (L7, L8, C7, C507, C9)
This low-pass filter removes 16 kHz metering pulses.

㉓ Transmitter amplifier (IC501 1/2)
This transmitter buffer amplifier amplifies DTMF signals and FAX send signals.

㉔ Receiver amplifier (IC501 2/2)
This amplifier amplifies MF tones, dial tones, and FAX receive signals.

㉕ 16 kHz LPF (IC502)
This active low-pass filter removes 16 kHz metering pulses.

㉖ PBXE (RL4)
This circuits connects one end of the LINE terminal to the PBXE terminal when requested from the PBX line.

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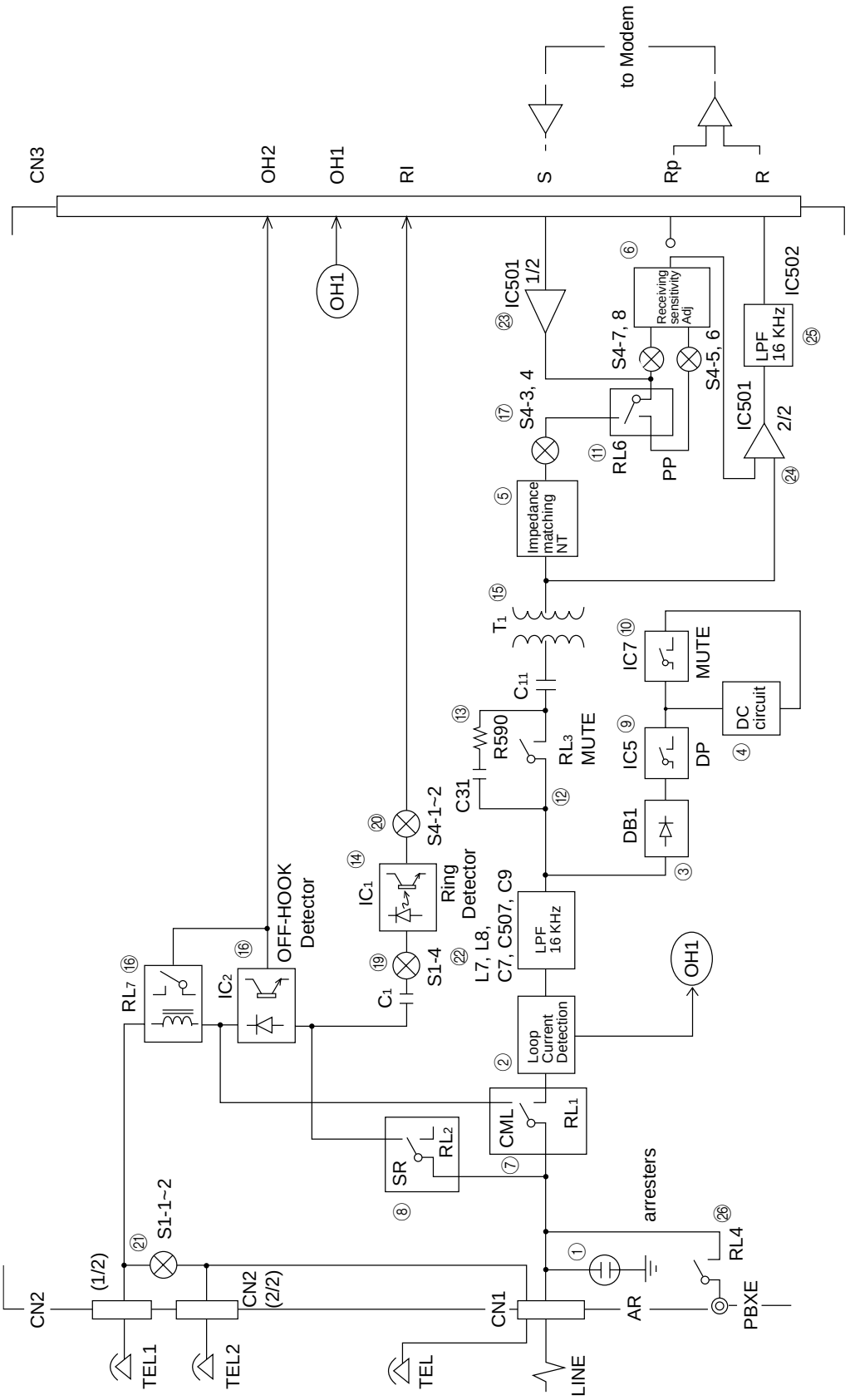

Figure A3.7.4 Block Diagram of DN5

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A3.8 TELU, TEL-W2, TEL-W1, TEL-W2D and TEL-W2F Circuit Diagram (option)

TEL board is used for the control board of the telephone set when the optional telephone assembly is installed on the facsimile transceiver, and TEL board is selected from TELU, TEL-W2, TEL-W1, TEL-W2D and TEL-W2F because it differs depending on country's specifications. Therefore, the TEL circuit diagram is destined for the following countries.

Note: The relationship between TEL and other boards (NCU, NTIF, HOOK, etc.) shows A3. OKIOFFICE44/OKIFAX 4100/5000 series facsimile transceiver (page A3-101).

- TELU circuit diagram
  US and Canada.

- TEL-W2 circuit diagram
  Sweden, Finland, The Netherlands, Ireland, Portugal, New Zealand, Australia, Spain, Greece, Switzerland and Austria.

- TEL-W1 circuit diagram
  UK, Norway, Denmark, Belgium and Italy.

- TEL-W2D circuit diagram
  Germany

- TEL-W2F
  France

1. Block diagram

   - Figure A3.8.1 shows a block diagram of TELU circuit.
   - Figure A3.8.2 shows a block diagram of TEL-W2 circuit.
   - Figure A3.8.3 shows a block diagram of TEL-W1 circuit.
   - Figure A3.8.4 shows a block diagram of TEL-W2D circuit.
   - Figure A3.8.5 shows a block diagram of TEL-W2F circuit.

2. General functions of this circuit are as follows:

   - Speech IC
   - Sending Level Adjustment
   - Receiving Level Adjustment
   - Sending Frequency Response Adjustment
   - Side Tone Adjustment
   - DC V-1 Characteristics Adjustment
   - Return Loss Adjustment
   - AGC (automatic gain control)
   - Manual Pad
   - Sending Frequency Response Adjustment
   - Receiving Frequency Response Adjustment
   - Pulse Dialing (for TEL-W1)
   - MF Dialing (for TEL-W1)
   - Charge Pulse Elimination Characteristics (for TEL-W2D)
   - Handset Interface

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3. Explanation of TEL circuit diagram

This section describes functional blocks of individual TEL circuit diagram.

3-1 TELU circuit diagram

TELU circuit diagram is formed by Speech IC and interface of UNC, HOOK SW and HANDSET.

1) Speech IC

The hybrid circuit is formed by Speech IC.

2) Handset Interface

- Transmitter signal route
  Signal from the microphone of the handset is input to pin 15 and 16 of Speech IC. This signal is determined by the amplification factor and output to the telephone line via UNC, Hook switch and DB2 (rectifier).

- Receive signal route
  Receive signal from the telephone line enters Speech IC via UNC, Hook switch and DB2 and is output to pin 2 & 3 of the speaker of the handset.

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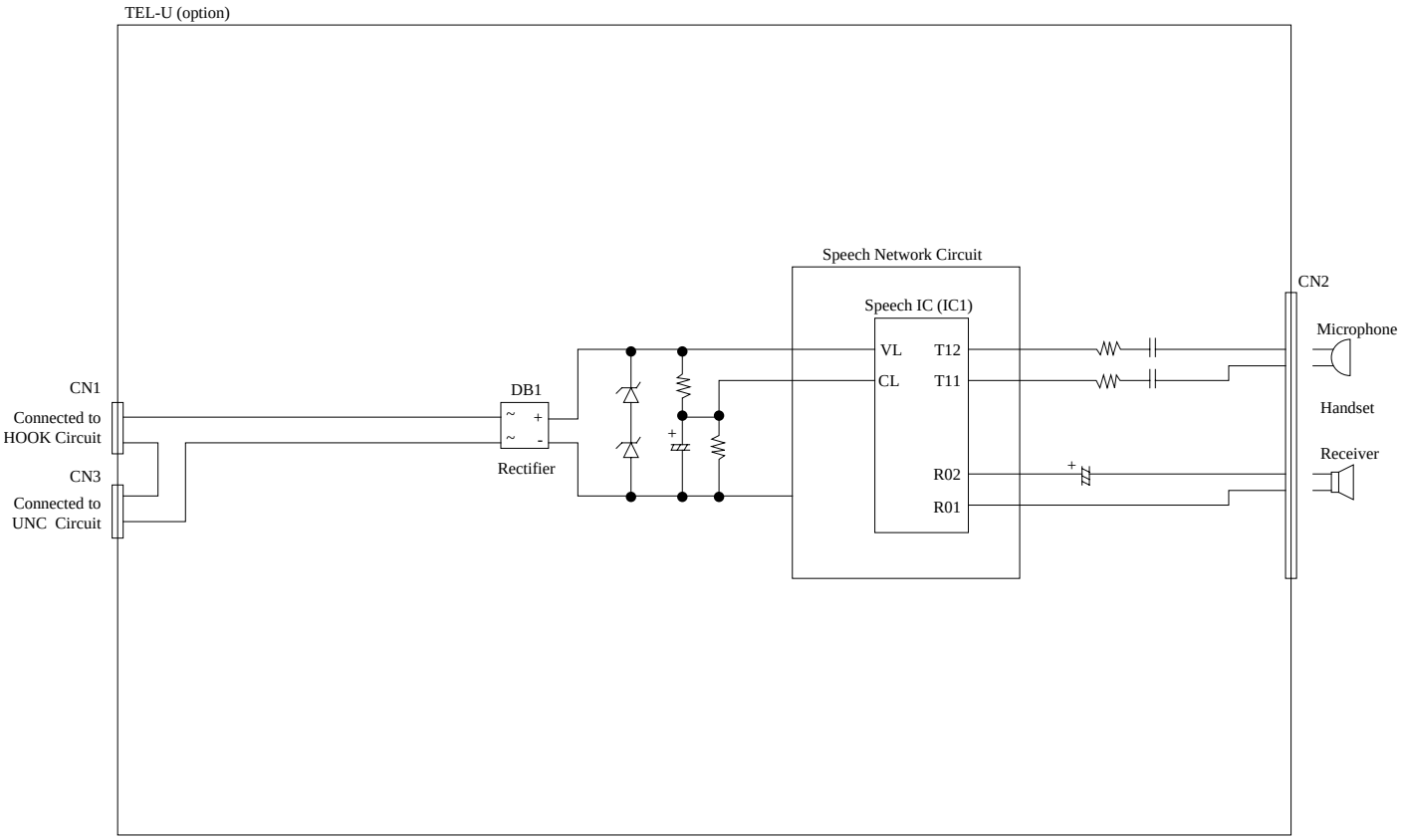

Figure A3.8.1 Block Diagram of TEL-U (option)

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3-2 TEL-W2F circuit diagram

Note: Each country's hardware parameters comparison table refer to page A3-82 ~ 83.

1) Speech IC

General functions of the speech IC are as follows:

- Basic speech functions included.
- Separate receive pre-amplifier with signal output terminal
- Separate receive power amplifier input terminal, cause it is possible to mixing input.
- Balanced input for microphone input to provide immunity to common mode noise.
- MF pre-amplifier input terminal is possible to mixing input.
- Dial pulse waveform improvement circuit included.
- Manual pad function included.
- The transmit, receive, and DTMF amplifier are provided with AGC in accodance with the line current.

2) Sending Level Adjustment

The sending level is determined by the circuit section formed by resistors R55, R56,R57 and R58, and the bits of R110-R114 connect the resistors in parallel. The sending level is maximum when all the bits of R110-R114 are set to "Mount", and minimum when all the bits of R110-R114 are set to "Not mount".

3) Receiving Level Adjustment

The receiving level is determined by the circuit section formed by resistors R34, R35, R36, R37 and R38, and the bits of R101-R105. The receiving level is minimum when all the bits of R101-R105 are set to "Mount", and maximum when all the bits of R101-R105 are set to "Not mount".

4) Sending Frequency Response Adjustment

The circuit section affecting the low range level of the sending frequency response is formed by capacitors, C35 and C36, which are connected in series to the section in front of a transmitter.

Note: When the fequency response is changed, the sending and receiving levels may be changed. Verify the sending and receiving levels after adjustment.

5) Side Tone Adjustment

Adjustment is unavailable.

6) DC V-I (voltage-versus-current) Characteristics Adjustment

Adjustment is unavailable.

7) Return Loss

Adjustment is unavailable.

8) AGC (automatic gain control)

Adjustment is unavailable.

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9) Manual Pad

Adjustment is unavailable.

(1) DC resistance
(2) Return loss
(3) Sending level
(4) Receiving level
(5) Side tone level

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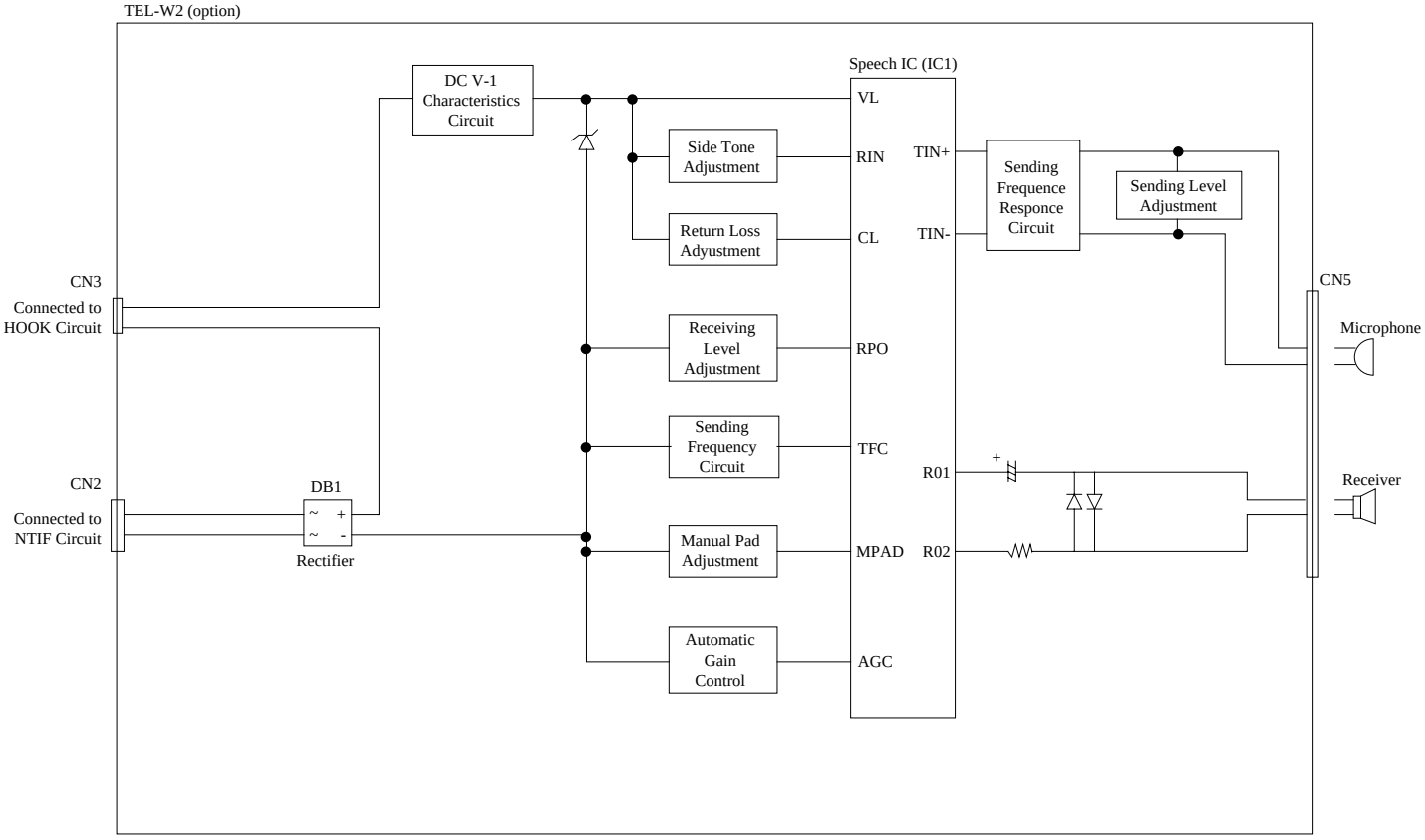

Figure A3.8.5 Block Diagram of TEL-W2F (option)

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Dip-switch No.		Sweden	Finland	The Netherlands	Ireland	Portugal	New Zealand	Australia	Remarks
SW1	1	ON	ON	OFF	OFF	OFF	OFF	OFF	Balancing Network
	2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	3	OFF	OFF	OFF	OFF	OFF	OFF	ON	
	4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	5	OFF	OFF	OFF	OFF	ON	OFF	OFF	
	6	OFF	OFF	ON	OFF	OFF	OFF	OFF	
	7	OFF	OFF	OFF	ON	OFF	OFF	OFF	
	8	OFF	OFF	OFF	OFF	OFF	ON	OFF	
SW2	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Impedance Matching
	3	ON	ON	ON	ON	ON	OFF	OFF	
	4	OFF	OFF	OFF	OFF	OFF	ON	OFF	
	5	OFF	OFF	OFF	OFF	OFF	OFF	ON	
	6	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	7	OFF	OFF	OFF	OFF	OFF	OFF	OFF	DC Resistance
	8	ON	ON	ON	ON	ON	ON	ON	Impedance Setting
SW3	1	ON	ON	ON	ON	ON	ON	OFF	Sending Frequency Setting
	2	ON	ON	ON	ON	ON	ON	OFF	
	3	ON	ON	OFF	ON	ON	OFF	OFF	Sending Level Setting
	4	OFF	OFF	ON	OFF	ON	ON	OFF	
	5	OFF	OFF	OFF	ON	ON	ON	OFF	
	6	ON	ON	ON	OFF	OFF	OFF	OFF	
	7	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Not Used
	8	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
SW5	1	ON	ON	OFF	ON	ON	OFF	ON	Rx Frequency (FLUP)
	2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Receiving Level Setting
	3	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
	4	OFF	ON	ON	OFF	ON	ON	ON	
	5	OFF	ON	ON	OFF	OFF	ON	OFF	
	6	ON	OFF	OFF	ON	ON	OFF	ON	
	7	ON	ON	ON	ON	ON	ON	ON	
	8	ON	ON	OFF	ON	ON	ON	OFF	Rx Frequency (FHUP)
SW6	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Manual Pad Setting
	2	OFF	OFF	OFF	ON	ON	ON	OFF	Automatic Gain Control
	3	ON	ON	OFF	OFF	OFF	OFF	ON	
	4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Not Used
	5	ON	ON	OFF	ON	OFF	OFF	OFF	Tx Frequency Setting
	6	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Not Used

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Dip-switch No.		Spain	Greece	Switzer-land	Austria			Remarks
SW1	1	OFF	OFF	ON	OFF			Balancing Network (Side-tone Setting)
	2	ON	OFF	OFF	ON			
	3	OFF	OFF	OFF	OFF			
	4	OFF	ON	OFF	OFF			
	5	OFF	OFF	OFF	OFF			
	6	OFF	OFF	OFF	OFF			
	7	OFF	OFF	OFF	OFF			
	8	OFF	OFF	OFF	OFF			
SW2	1	OFF	OFF	OFF	OFF			
	2	OFF	OFF	ON	ON			Impedance Matching Setting
	3	ON	ON	OFF	OFF			
	4	OFF	OFF	OFF	OFF			
	5	OFF	OFF	OFF	OFF			
	6	OFF	OFF	OFF	OFF			
	7	ON	ON	OFF	OFF			DC Resistance
	8	OFF	OFF	OFF	OFF			Impedance Setting
SW3	1	ON	ON	OFF	OFF			Sending Frequency Setting
	2	ON	ON	OFF	OFF			
	3	OFF	ON	OFF	OFF			Sending Level Setting
	4	ON	ON	OFF	OFF			
	5	OFF	ON	ON	ON			
	6	ON	OFF	OFF	OFF			
	7	OFF	OFF	OFF	OFF			Not Used
	8	OFF	OFF	OFF	OFF			
SW5	1	OFF	OFF	ON	ON			Rx Frequency (FLUP)
	2	ON	OFF	ON	ON			Receiving Level Setting
	3	OFF	ON	OFF	OFF			
	4	ON	ON	OFF	OFF			
	5	OFF	ON	ON	ON			
	6	OFF	OFF	OFF	OFF			
	7	ON	OFF	OFF	OFF			
	8	OFF	OFF	OFF	OFF			Rx Frequency (FHUP)
SW6	1	OFF	OFF	OFF	OFF			Manual Pad Setting
	2	OFF	OFF	OFF	OFF			Automatic Gain Control
	3	OFF	OFF	OFF	OFF			
	4	OFF	OFF	OFF	OFF			Not Used
	5	OFF	OFF	OFF	OFF			Tx Frequency Setting
	6	OFF	OFF	OFF	OFF			Not Used

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3-3 TEL-W1 circuit diagram

Note: For each country's hardware parameter comparison table refer to page A3-88.

1) Speech IC

General functions of the speech IC are as follows:
- Basic speech functions included.
- Separate receive pre-amplifier with signal output terminal
- Separate receive power amplifier input terminal.
- Balanced input for microphone input to provide immunity to common mode noise.
- MF pre-amplifier input terminal.
- Dial pulse waveform improvement circuit included.
- Manual pad function included.
- The transmit, receive, and DTMF amplifier are provided with AGC in accodance with the line current.

2) Sending Level Adjustment

The sending level is adjusted by the selection of resistors allocated for individual countries by the dip-switch settings. The dip-switch set to ON corresponds to the country as shown in the table below.

Country	Dip-switch	Symbol
UK	SW3-1	R47
Italy	SW3-2	R48
Denmark	SW3-3	R55
Norway	SW3-4	R56
Belgium	SW3-1,4	R47, R56

- Increase the resistor value to set louder sending level (i.e. lower SLR value).
- Lower the resistor value to set quieter sending level (i.e. higher SLR value).

3) Receiving Level Adjustment

The receiving level is adjusted by the selection of resistors allocated for individual countries by the dip-switch settings. The dip-switch set to ON correspond to the country as shown in the table below.

Country	Dip-switch	Symbol
UK	SW5-1	R35
Italy	SW5-2	R36
Denmark/ Belgium	SW5-3	R72
Norway	SW5-4	R73

- Lower the resistor value to set louder receiving level (i.e. lower RLR value).
- Increase the resistor value to set quieter receiving level (i.e. higher RLR vallue).

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4) Sending Frequency Response Adjustment

The adjustment of the high range frequency response is performed by changing the capacitance of the capacitor C33. Increase the value of C33 to lower the amplitude of the high range level. Decrease the value of C33 to raise the amplitude. The adjustnent of the low range frequency response is performed by changing the capacitance of the capacitors C35 and C37. Decrease the capacitance of C35 and C37 to lower the amplitude of the low range level. Increase the capacitance of C35 and C37 to raise the amplitude.

Note: When the sending frequency response is changed, the sending loudness rating (SLR) value may change. It is required to measure the SLR value again and verify it.

5) Receiving Frequency Response Adjustment

The adjustment of the low range frequency response is performed by changing the capacitance of the capacitor C26. Increase the capacitance of C26 to raise the amplitude of the low range level. Decrease the capacitance of C26 to lower the amplitude.
The adjustment of the high range-frequency response is performed by changing the capacitance of the capacitors C29. Decrease the capacitance of C29 to raise the amplitude of the high range level. Increase the capacitance of C29 to lower the amplitude of the high range level.

Note: When the receiving frequency response is changed, the receiving loudness rating (RLR) value may change. It is required to measure the RLR value again and verify it.

6) Side-Tone Adjustment

The side-tone adjustment is performed by the C-R networks corresponding to the individual countries. For adjusting the side tone, select the corresponding C-R network by the designated DIP switch and adjust the STMR value to the specified value by the values of capacitors and resistors.

The dip-switch set to ON corresponds to the country as shown in the table.

Country	Dip-switch	Symbol (network)
UK	SW1-1	R19, C16, R22
Italy/ Belgium	SW1-2	R20, C17, R23
Denmark	SW1-3	R21, C18, R24
Norway	SW1-4	R62, C47, R63

Note: When the C-R network is changed for the side tone adjustment, the receiving loudness rating (RLR) value may change. It is required to measure the RLR value again and verify it.

7) DC V-I Characteristics

The DC V-I characteristics at the time of the line supplement is performed by diodes D10, D11 and SW4-5, and can be selected from two types by setting of dip-switch 4-5. In case SW4-5 is set to ON, since D10, and D11 are short-circuited, V/I value is lowered. In case SW4-5 is set to OFF, V/I value is raised.

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8) Return Loss Adjustment

The return loss adjustment is performed by the installed C-R networks corresponding to the individual country. For adjusting the return loss, select the corresponding C-R network by the designated DIP switch and adjust the return loss by changing the values of capacitors and resistors.

The dip-switch set to ON corresponds to the country as shown in the table.

Country	Dip-switch	Symbol (network)
UK	SW1-5	R29, C21, R26
Italy/Belgium	SW1-6	R30, C22, R27
Denmark	SW1-7	R31, C23, R28
Norway	SW1-8	R76, C54, R77

9) AGC (automatic gain control)

AGC is a function for adjusting the sending and receiving levels automatically in accordance with the line current values, so that the optimal communication level is automatically set. The circuit section to determine the AGC characteristics is formed by resistors R41 and R43 connected to the AGC terminal of the speech IC. The AGC gain is high when the resistor values are small, and the AGC gain is low when the resistor values are large.

10) Pulse Dialling

Changing the make-and-break ratio is determined by the dip-switch SW4-1 and 2.

- Setting SW4-1 to ON and SW4-2 to OFF corresponds to a 33% make ratio.
- Setting SW4-1 to OFF and SW4-2 to ON corresponds to a 40% make ratio.

11) MF dialling

The MF signal sending level is adjusted by the selection of resistors and capacitors allocated for the individual countries by the dip-switch setting.

The dip-switch set to ON corresponds to the country as shown in the table below.

Country	Dip-switch	Symbol	Rated Value
UK	SW2-1	C31, R38	-9 dBm/-11 dBm
Italy/Belgium	SW2-2	C70, R39	-6 dBm/-8 dBm
Denmark	SW2-3	C71, R80	-9 dBm/-11 dBm
Norway	SW2-4	C72, R81	-9 dBm/-11 dBm

Increase the resistor value to lower the MF signal sending level, and decrease the resistor value to raise the sending level. The difference between the high and low groups of the MF signal is performed by changing the capacitance of the capacitor. The allowable level difference between the high and low groups is (2±1) dB.

12) Manual Pad

The manual pad is used as a countermeasure by the ON setting of SW3-8 when howling is occurs because of line conditions. (normally set to OFF)

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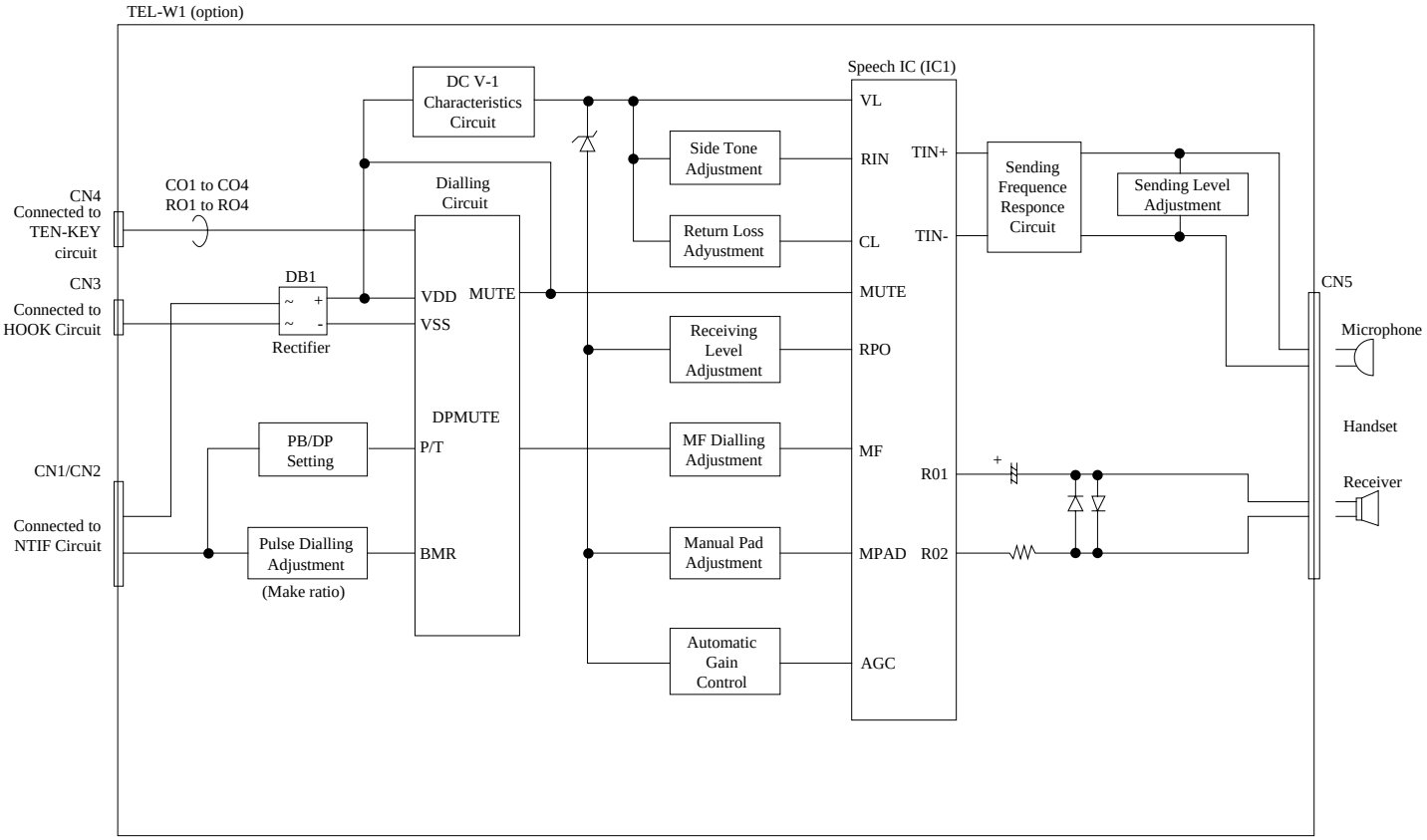

Figure A3.8.3 Block Diagram of TEL-W1 (option)

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Dip-switch No.		United Kingdom	Italy	Denmark	Norway	Belgium			Remarks
SW1	1	ON	OFF	OFF	OFF	OFF			Balancing Network (Side Tone Setting)
	2	OFF	ON	OFF	OFF	ON			
	3	OFF	OFF	ON	OFF	OFF			
	4	OFF	OFF	OFF	ON	OFF			
	5	ON	OFF	OFF	OFF	OFF			Impedance Matching Setting
	6	OFF	ON	OFF	OFF	ON			
	7	OFF	OFF	ON	ON	OFF			
	8	OFF	OFF	OFF	ON	OFF			
SW2	1	ON	OFF	OFF	OFF	OFF			
	2	OFF	ON	OFF	OFF	ON			MF-tone Level Setting
	3	OFF	OFF	ON	OFF	OFF			
	4	OFF	OFF	OFF	ON	OFF			
SW3	1	ON	OFF	OFF	OFF	ON			Seding Level Setting
	2	OFF	ON	OFF	OFF	OFF			
	3	OFF	OFF	ON	OFF	OFF			
	4	OFF	OFF	OFF	ON	ON			
	5	ON	OFF	ON	ON	OFF			MF-tine Level Setting
	6	ON	ON	OFF	OFF	ON			Automatic Gain Control
	7	OFF	ON	OFF	OFF	OFF			
	8	OFF	OFF	OFF	OFF	OFF			Manual Pad Setting
SW4	1	ON	OFF	ON	ON	ON			MEKE:
	2	OFF	ON	OFF	OFF	OFF			
	3	ON	ON	OFF	OFF	ON			RATE:
	4	OFF	OFF	ON	ON	OFF			
	5	OFF	ON	ON	ON	ON			DC Resistance
	6	OFF	OFF	ON	OFF	OFF			Threshold
SW5	1	ON	OFF	OFF	OFF	OFF			Receiving Level Setting
	2	OFF	ON	OFF	OFF	OFF			
	3	OFF	OFF	ON	OFF	ON			
	4	OFF	OFF	OFF	ON	OFF			

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3-4 TEL-W2D circuit diagram

TEL-W2D board is for the Germany version only.

1) Speech IC

General functions of the speech IC are as follows:

- Basic speech functions included.
- Separate receive pre-amplifier with signal output terminal
- Separate receive power amplifier input terminal, cause it is possible to mixing input.
- Balanced input for microphone input to provide immunity to common mode noise.
- MF pre-amplifier input terminal is possible to mixing input.
- Dial pulse waveform improvement circuit included.
- Manual pad function included.
- The transmit, receive, and DTMF amplifiers are provided with AGC in accodance with the line circuit.

2) Sending Level Adjustment

The sending level can be adjusted by resistor R55 connected in parallel with the section in front of the transmitter. Increase the resistor value to lower the sending level, and decrease the value to raise the level.

3) Receiving Level Adjustment

The receiving level is determined by the resistor value of R35. Decrease the resistor value of R35 to lower the receiving level, and increase it to raise the level.

4) Frequency Response Adjustment

The high range frequency response of the transmitter is determined by the capacitance of C61. Increase the capacitance of C61 to lower the high range level, and decrease the capacitance to raise the high range level. The low range frequency response is determined by the capacitance of C36 and C37. Increase the capacitance of those capacitors to raise the low range level, and decrease the capacitance to lower the level. When the capacitance of C36 and C37 are changed, both capacitors should have the same value.

The high range frequency response of the receiver is determined by the capacitance of C29. Increase the capacitance of C29 to lower the high range level, and lower the capacitance to raise the level. The low-range frequency response is determined by the capacitance of C26. Increase the capacitance to raise the low-range level, and lower the capacitance to decrease the low-range level.

5) Side-Tone Adjustment

The side-tone level is determined by the values of R19, R22 and C16.

Note: Changing the side tone level setting affects the sending and receiving levels, the verification and readjustment of the sending and receiving levels, and the verification and the readjustment of the side tone level are required.

6) DC V-I (voltage-versus-current) Characteristics Adjustment

The DC V-I characteristics can be changed by mounting or not mounting D10 and D11. When D10 and D11 are mounted the DC V/I value is raised. When these diodes are deleted the DC V/I value is lowered. R202 is a 0 Ω resistor, which is mounted when D10 and D11 are not being installed.

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7) Return Loss

The circuit section which determines the return loss is formed by R26, R29 and C21.

8) AGC (automatic gain control)

The gain of the AGC is determined by the resistor value of R41. To lower the AGC gain, raise the resistor value of R41. To raise the gain, decrease the resistor value.

9) Charge Pulse Elimination Characteristics

The Germany network sends 16kHz pulses for charging to the terminal while the terminal is connected to the line. The terminal should not cause any mulfunction for the communication by the charge pulses. In TEL-W2D PCB a parallel oscillation filter is formed by L3, C305/L2 and C301 which eliminates the charge pulses.

10) Manual Pad

The sending/receiving levels are lowered by 6dB when SW6-1 is set to ON. Use the setting as a countermeasure when howling is generated because of line conditions (normally set to OFF).

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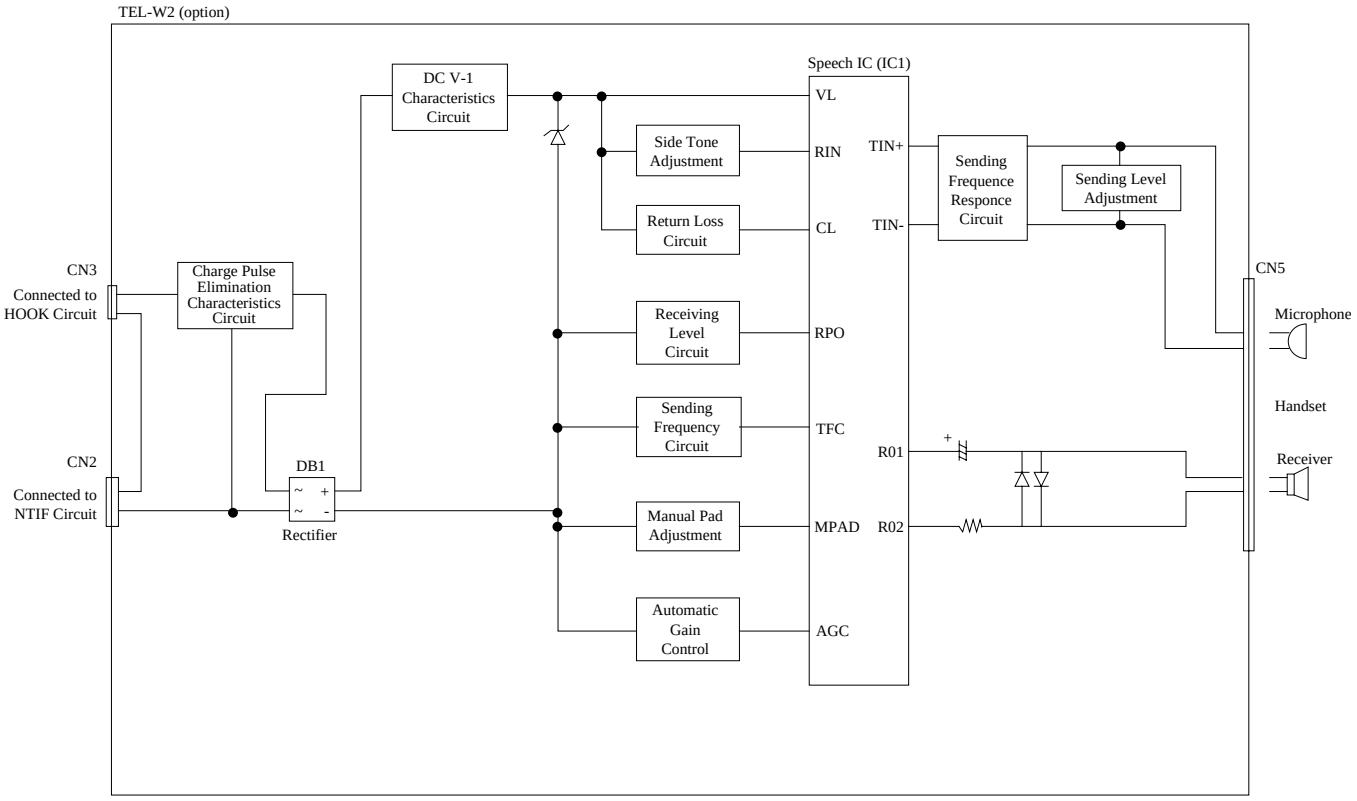

Figure A3.8.4 Block Diagram of TEL-W2D (option)

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A3.9 NTIF (NCU and TEL interface) Circuit Diagram (option)

NTIF board is used as an interface board of NCU, TEL and HOOK board. (Expect US version)
The relationship between NTIF and the peripheral block diagram is shown in A3.11 OKIFAX 4100/5000 series facsimile transceiver (page A3-101).

1. Block diagram

NTIF board circuit consists of the following blocks:

1) Dialing

The selection between the MF dial and the dial pulse (DP) is performed by SW2 setting. SW4-3 should be set to ON, and SW4-4 set to OFF on TEL-W1.

2) Route selection

The shunt wire activation for the UK version and the cascade connection of the external TEL are performed by the ON/OFF settings of SW3-1,2 and 3. The Dip-switch settings are shown below.

Each country's hardware parameters comparison table:

Dip-sw 3 Setting Table (U.K.)

No.	Setting	Remarks
1	OFF	Route change
2	ON	
3	OFF	
4	OFF	Not used

Dip-sw 3 Setting Table (Except U.K.)

No.	Setting	Remarks
1	ON	Route change
2	OFF	
3	ON	
4	OFF	Not used

3) Ringer circuit (for ABB/ABX type)

This circuit is used for the buzzer sound when optional telephone set is mounted on the facsimile transceiver.

4) Ring impedance

The circuit section related to the ring impedance is formed by C1, R4. R5, and R6.

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A3.10 MEMO (memory) Circuit Diagram for OKIOFFICE 44/OKIFAX 4100 (option)

By mounting this optional memory board (MEM/MEM-2), it can be used for the expansion memory.

1. Block diagram

Figure A3.10.1 shows a related signal of memory board.

MEMO/MEMO-2 circuit consists of the following block.

1) 512 kbyte pesudo static RAM x 4 (RAM1 to RAM4).
Used as follows:
- Picture memory for the ECM send/receive modes.
- Picture memory for the memory transmission mode.
- Picture memory for the retransmission data.
- Picture memory for the reception in memory

2) Memory capacity

- One of 512 kbyte (MEMO) or 1 Mbyte (MEMO-2) memory board can be added for OKIOFFICE 44/OKIFAX 4100.

The relationship between memory capacity and mounted boards are shown in the following table

Equipment	Memory Capacity	RAM1	RAM2	RAM3	RAM4	Mounted Board Name
OKIOFFICE 44 /OKIFAX 4100	512 kbyte	Mounted	Not mounted	Not mounted	Not mounted	MEMO
	1 Mbyte	Mounted	Mounted	Not mounted	Not mounted	MEMO-2

Note: OKIOFFICE 44/OKIFAX 4100 does not back-up the message received in memory for the power failue.

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3) Image memory capacity

	Memory Condition	OKIFAX 4100 (pages)
With Option Board	Standard (without option)	17
	0.5 Mbyte	59
	1.0 Mbyte	102

Note: No. of sheets are counted provided that ITU-T No.1 sample document is used.
No. of sheets are typical value.

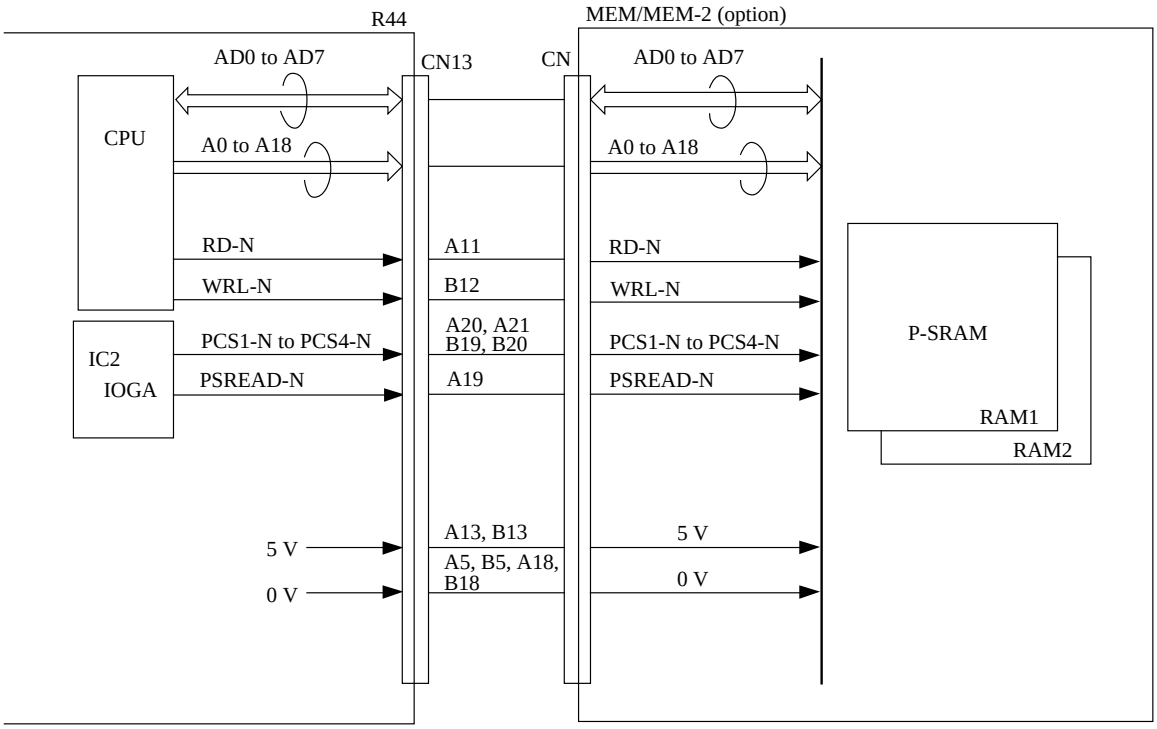

Figure A3.10.1 Related Signals of Memory Board for OKIOFFICE 44/OKIFAX 4100 (option)

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A3.11 MEMO (memory) Circuit Diagram for OKIFAX 5000 Series (option)

By mounting this optional memory board (MEM/MEM-2), it can be used for the expansion memory.

1. Block diagram

Figure A3.11.1 shows a related signal of memory board.

Memory board circuit consists of the following block.

1) 512 kbyte MOS Dynamic RAM x 4 (IC3 to IC6).
Used as follows:
- Picture memory for the ECM send/receive modes.
- Picture memory for the memory transmission mode.
- Picture memory for the retransmission data.
- Picture memory for the reception in memory

2) Memory capacity

- 1 Mbyte memory board can be added for OKIFAX 5200/5300.
- One of 1 Mbyte memory board can be added for OKIFAX 5000 series.

The relationship between memory capacity and mounted boards are shown in the following table.

Equipment	Memory Capacity	IC3	IC4	IC5	IC6
OKIFAX 5200/5300	1 Mbyte	Mounted	Mounted	Not mounted	Not mounted
OKIFAX 5500/5600	1 Mbyte	Mounted	Mounted	Not mounted	Not mounted
	2 Mbyte	Mounted	Mounted	Mounted	Mounted

Note: Back-up time on electrical interruption; Min. one hour for OKIFAX 5000 series.

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3) Image memory capacity

	Memory Condition	OKIFAX 5200/5300 (pages)	OKIFAX 5500/5600 A4 Setting	OKIFAX 5500/5600 LEGAL Setting
With Option Board	Standard (without option)	17	35	27
	1.0 Mbyte	102	120	112
	2.0 Mbyte	–	205	197

Note: No. of sheets are counted provided that ITU-T No.1 sample document is used.
No. of sheets are typical value.

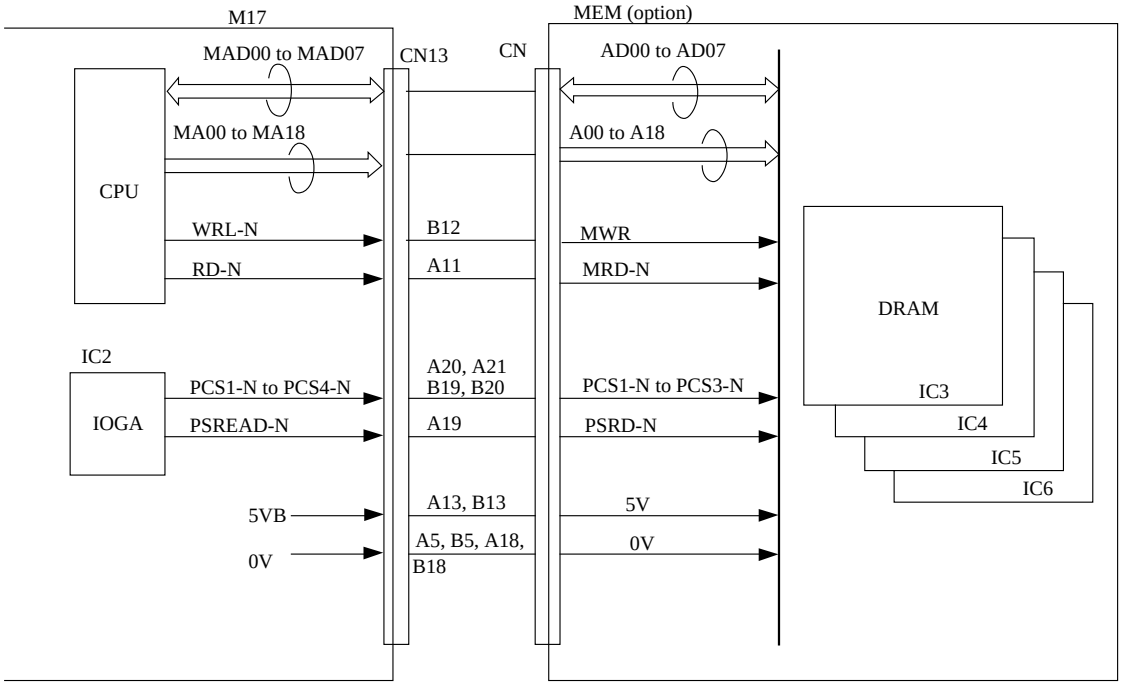

Figure A3.11.1 Related Signals of Memory Board for OKIFAX 5000 Series (option)

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A3.12 CTR (PC interface unit) Circuit Diagram (option)

CTR board is used as an interface board of PC and FAX when PC is connected to facsimile machine.

1. Block diagram

   CTR board circuit is formed by Receiver, Driver, and 1284-I/F.

   Figure A3.12.1 shows related signals of CTR board.

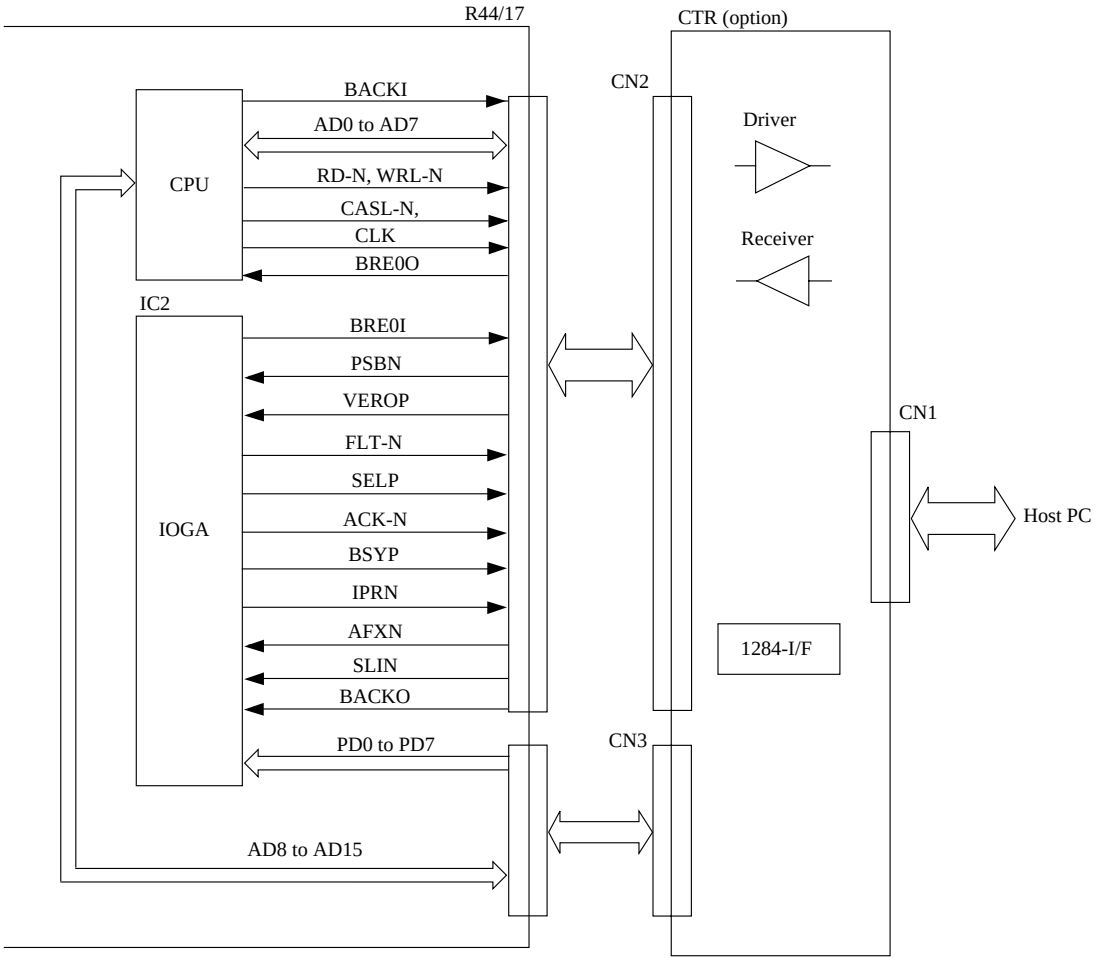

Figure A3.12.1 Related Signals of P050 (PC interface unit)

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2. Function

2.1 Summary

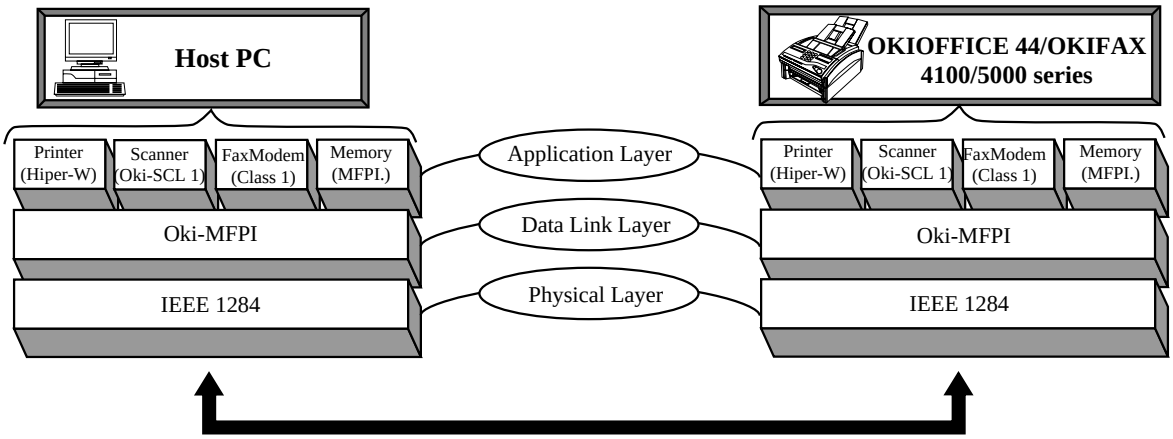
By installing the optional board (Bi-Centro), the following MFP (Multi-Function Peripheral) function can be realized.

Example:	OKIOFFICE 44/ OKIFAX 4100	OKIFAX 5000 series
• PC printer function (300/Q600 dpi)	4 PPM	8PPM (Target)
• PC Scanner function	8 dot/mm	8 dot/mm (INT'L), 300 dpi (ODA)

- PC Fax Modem function (TIA/EIA Class 1)
- PC Memory function
- PC Multiplex function Disable Enable

Interface between Fax machine and Host PC consists of three layer structure as detailed below, each sub-system can be operated at the same time by adopting a Oki-MFPI protocol in both Fax machine and Host PC.

Note: A simultaneous operation is not supported in OKIOFFICE 44/OKIFAX 4100, but the structure is same as other machine (OKIFAX 5000 series).



a) Application layer:
Performs a function control of each sub-system at the Host PC and Fax machine.

b) Data-Link layer:
Performs a protocol control at the Host PC and Oki-MFPI (TIA IS650 Level 1 requirement).
(Packetize/Unpacketize, flow control, Transfers command/data between each sub-system)

c) Physical layer:
Has a bi-directional interface control circuit which conforms to IEEE1284.
Standard mode: Compatible, Nibble
Oki special mode: MCE (Mode Change Express)

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Following devices are as sub-system:

1) Printer (HIPER-W: Host based Image PrintER for Windows)
   Encodes a rater image data in Host PC and transfers a data with HIPER-W emulation.

2) Scanner (Oki-SCL 1: Oki-Scanner Control Language 1)
   Transfers and image data of document scanned in Fax machine to the Host PC with Oki-SCL 1 command.

3) FaxModem (TIA/EIA Class 1)
   Send/receive a Class 1 command between Host PC and Fax machine.

4) Memory (MFPL: Multi-Function Peripheral Language)
   By using MFPL command, it is possible to display on screen of Host PC for condition of Fax machine and performs the initial registration of the telephone number used in Fax machine.

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A3.13 TQSB (Second tray) Circuit Diagram: option

1. Block diagrm

This board is installed as the optional board for OKIFAX 5000 series.

Figure A3.13.1 shows a block diagram of the second tray (option).

2. Function

Second tray consists of the following functions:

- Paper capacity : 500 sheets
- Paper size : A4, Letter, Legal
- Paper-size selection : Automatic
- Cassette/no-cassette selection : Automatic
- Paper/no-paper selection : Automatic
- Paper route open to facsimile transceiver unit : Automatic decision

Control method:
When second tray is installed with the facsimile transceiver unit, the tray is connected to the facsimile transceiver unit by a connecting cable. The tray is controlled by the command from CPU of PU (printer unit) section.

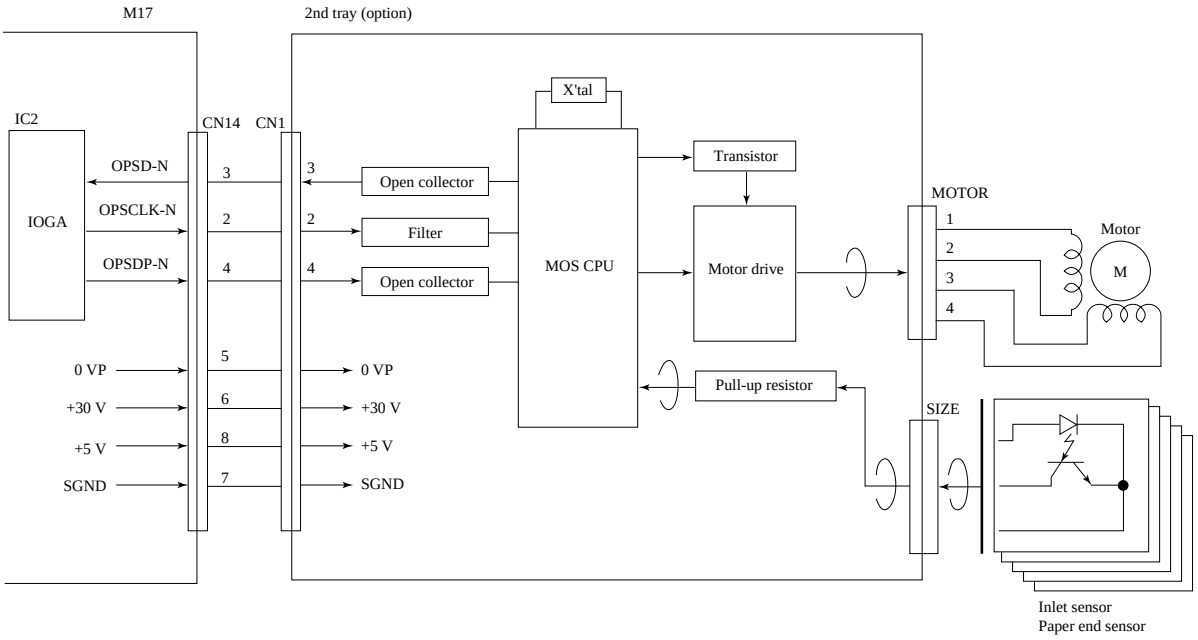

Figure A3.13.1 Block Diagram of 2nd Tray (for OKIFAX 5000 Series)

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A3.14 OKIOFFICE44/OKIFAX 4100/5000 series facsimile transceiver

Note: The relationship between countries names and boards names (NCU, Option board: TEL, NTIF, HOOK etc.) is shown below:

1. US version

   1) Countries names:

      US and Canada

   2) The circuit diagram is destined for the following boards:

      UNC, TELU, HOOK board and HANDSET
      Refer to Figure A3.14.1.

2. INT'L version (AB type)

   1) Countries names:

      Sweden, Finland, The Netherlands, Ireland, Portugal, New Zealand, Australia, Spain and Greece

   2) The circuit diagram is destined for the following boards:

      WN5, NTIF, TEL-W2, HOOK board and HANDSET
      Refer to Figure A3.14.2.

3. INT'L version (ABX type)

   1) Countries names:

      Norway, Denmark and Italy, Belgium

   2) The circuit diagram is destined for the following boards:

      WN5, NTIF, TEL-W1, HOOK, 10KY board and HANDSET
      Refer to Figure A3.14.3.

4. INT'L version (ABB type)

   1) Countries names:

      Swizerland and Austria

   2) The circuit diagram is destined for the following boards:

      DN5, NTIF, TEL-W2, HOOK board and HANDSET
      Refer to Figure A3.14.4.

5. FTZ version

   1) Country name:

      Germany

   2) The circuit diagram is destined for the following boards:

      DN5, NTIF, TEL-W2D, HOOK board and HANDSET
      Refer to Figure A3.14.5.

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6. UK version

   1) Countries names:

      UK

   2) The circuit diagram is destined for the following boards:

      FNS, NTIF, TEL-W1, HOOK, 10 KY board and HANDSET
      Refer to Figure A3.14.6.

7. France version

   1) Countries names:

      France

   2) The circuit diagram is destined for the following boards:

      FNS, NTIF, TEL-W2F, HOOK, 10 KY board and HANDSET
      Refer to Figure A3.14.7.

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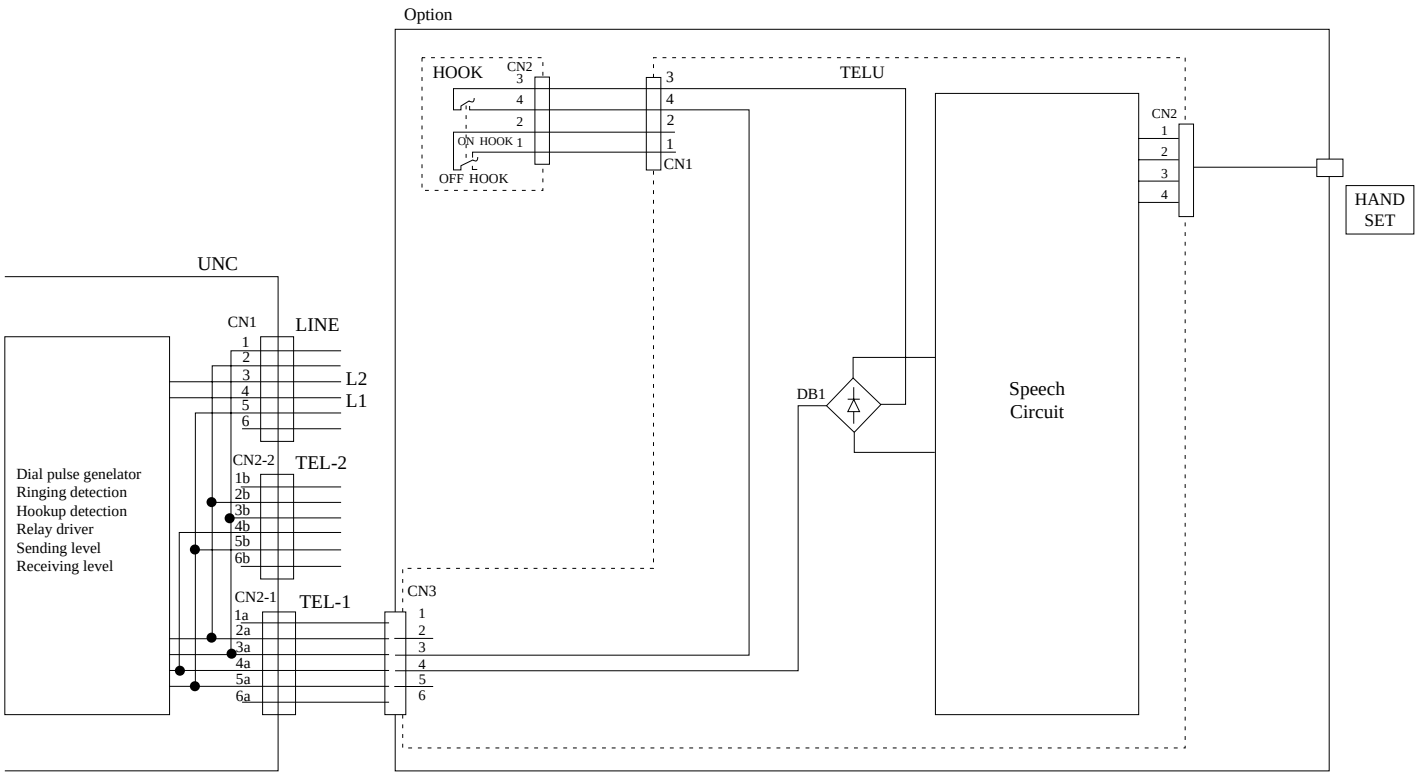

Figure A3.14.1 Relationship between UNC and TELU for US Version

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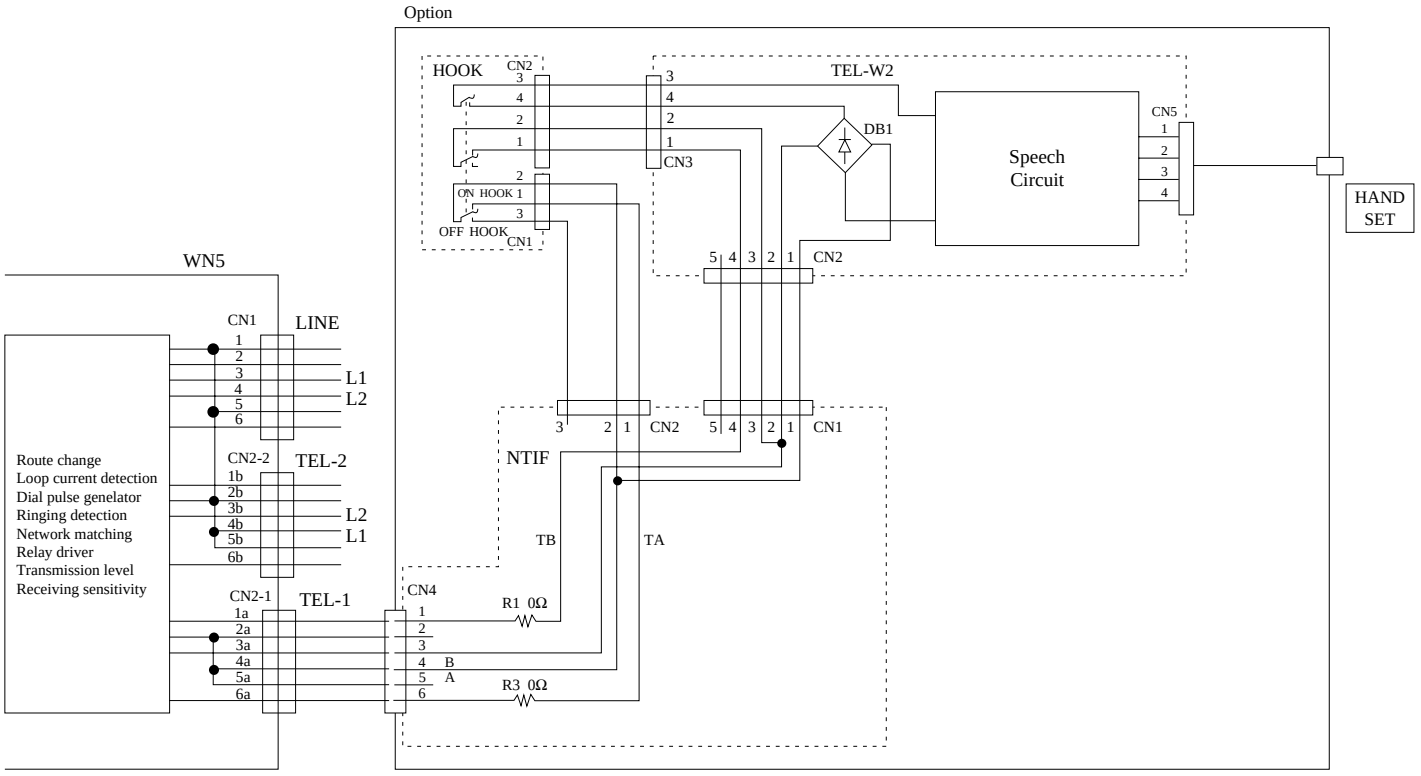

Figure A3.14.2 Relationship between WN5 and TEL-W2 for AB Type of INT'L Version

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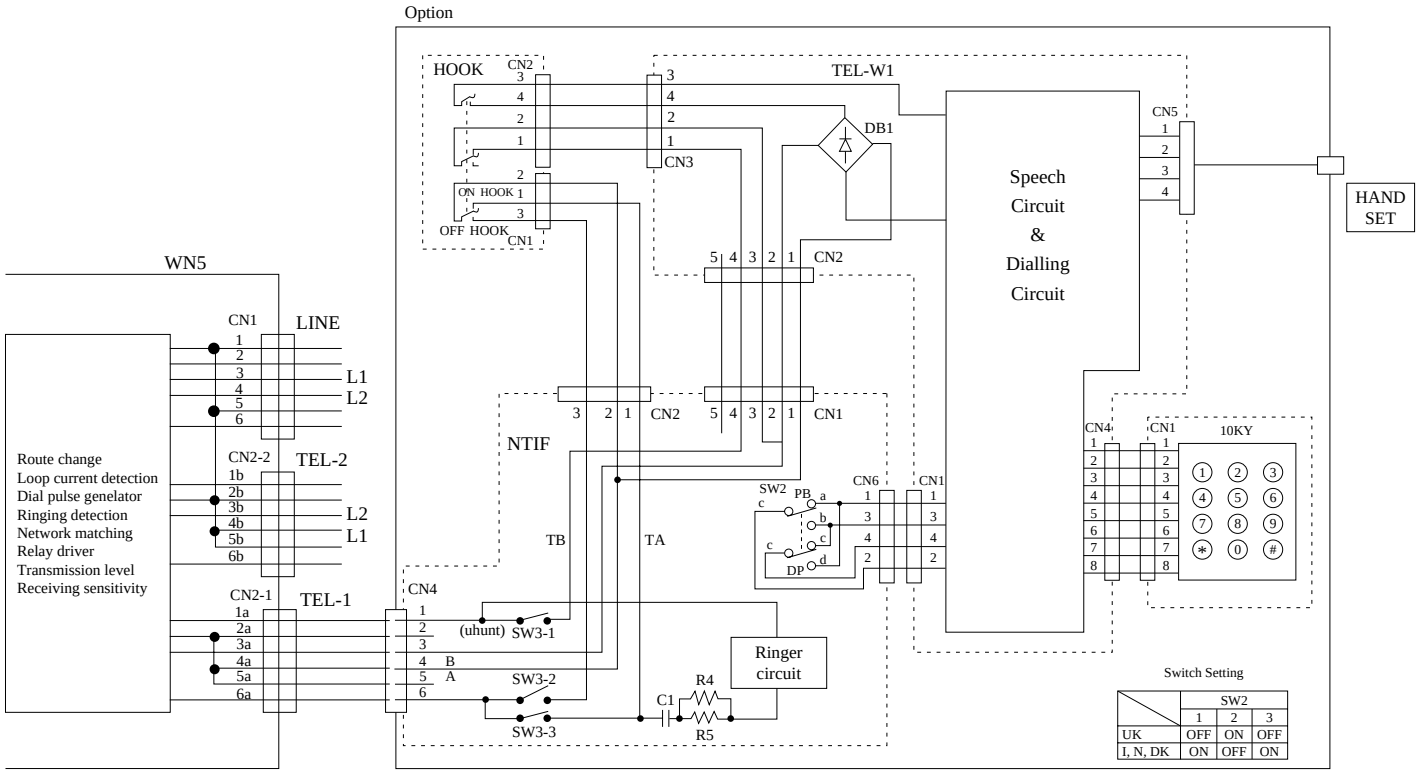

Figure A3.14.3 Relationship between WN5 and TEL-W1 for ABX Type of INT'L Version

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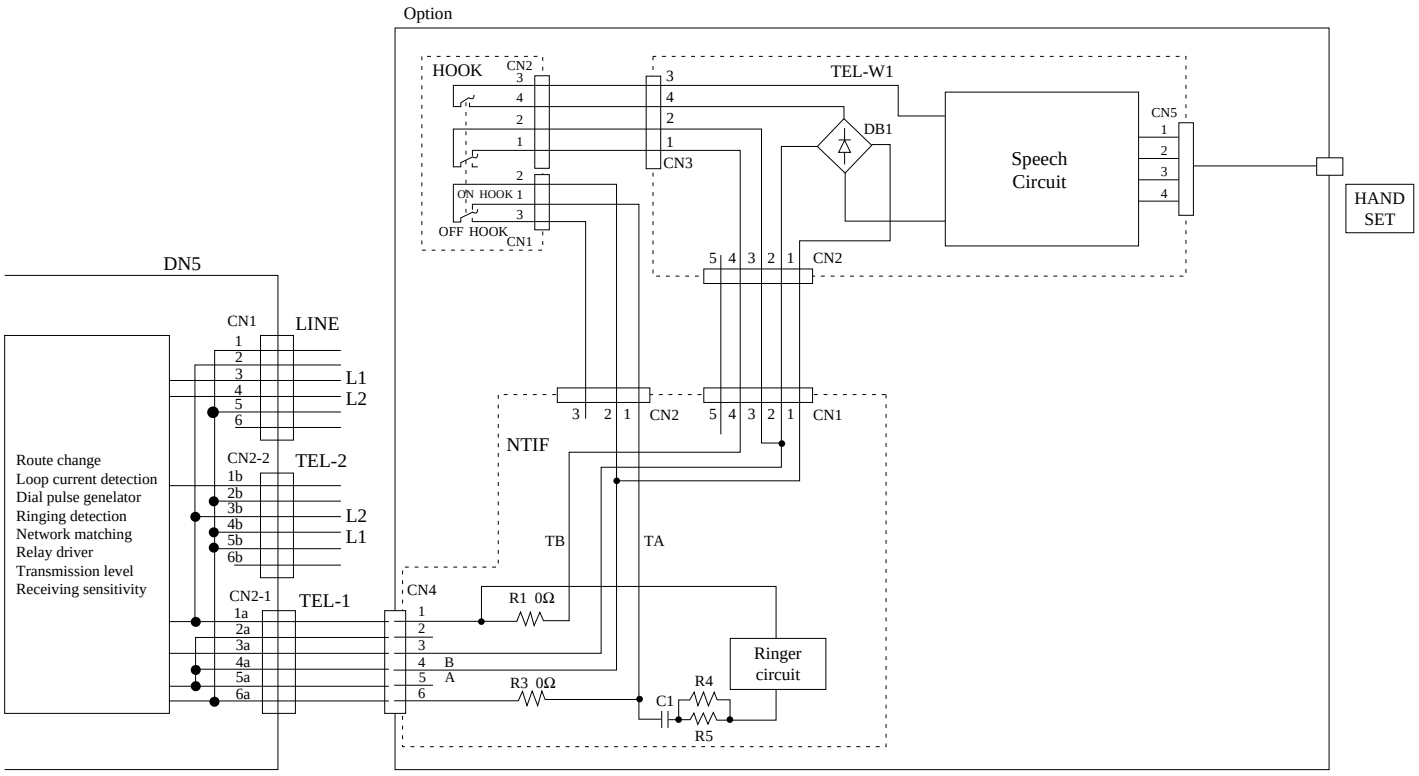

Figure A3.14.4 Relationship between DN5 and TEL-W2 for ABB Type of INT'L Version

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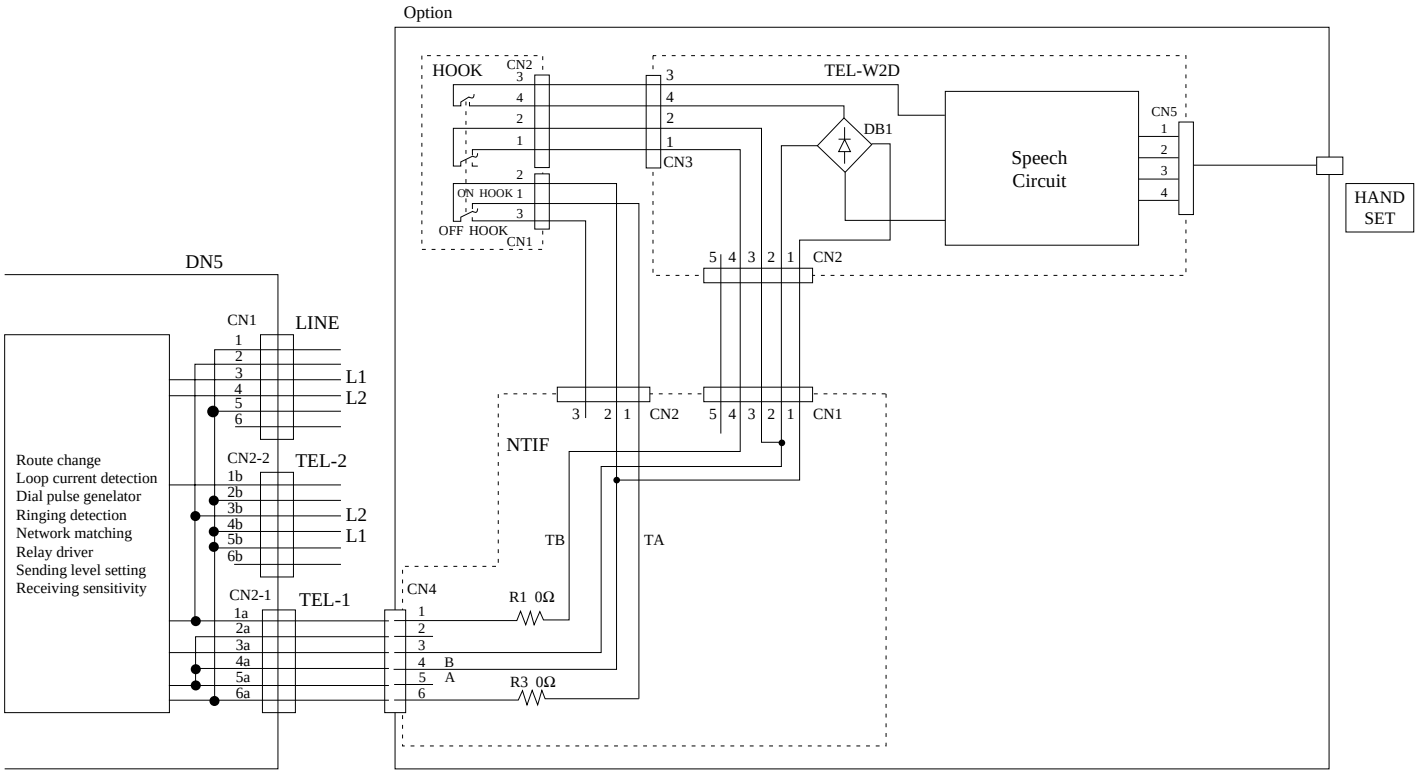

Figure A3.14.5 Relationship between DN5 and TEL-W2D for FTZ Version

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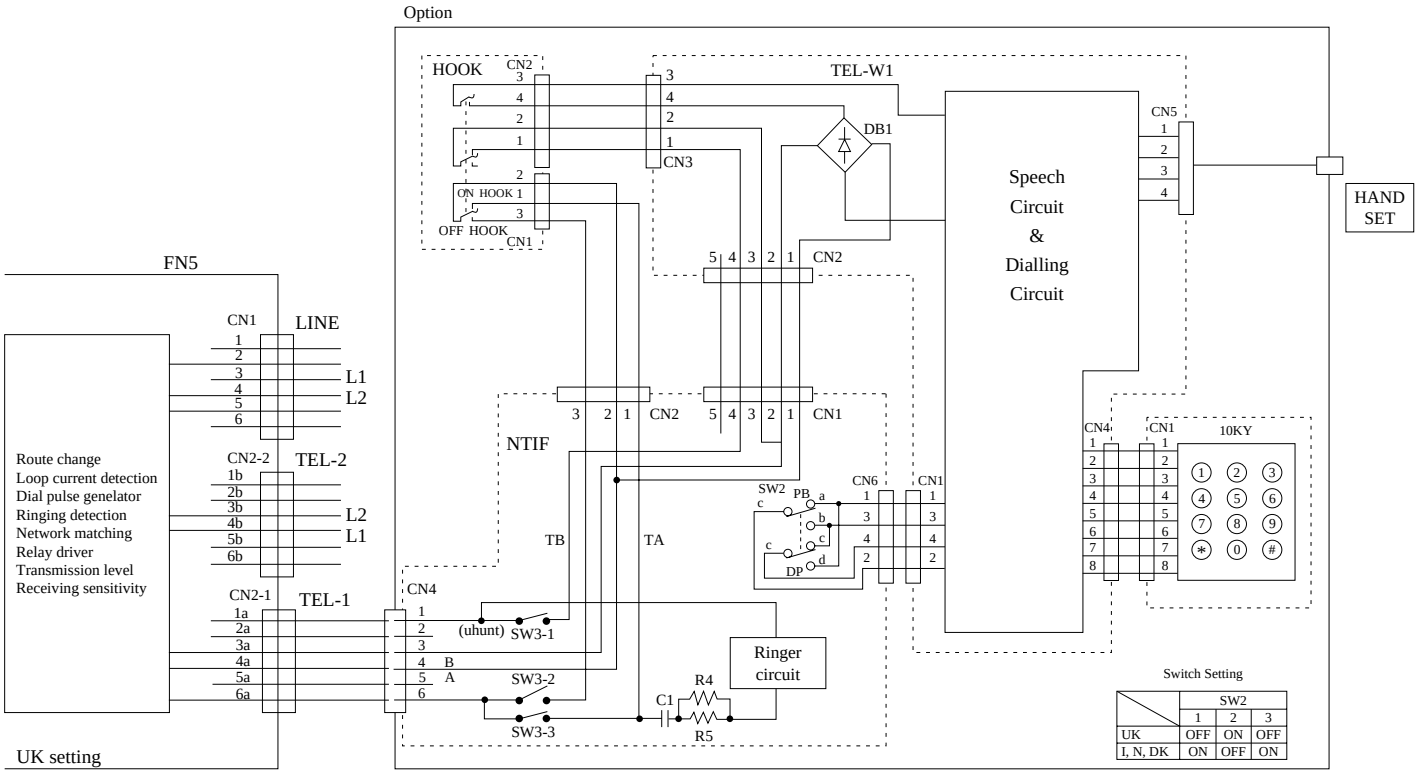

Figure A3.14.6 Relationship between FN5 and TEL-W1 for UK Version

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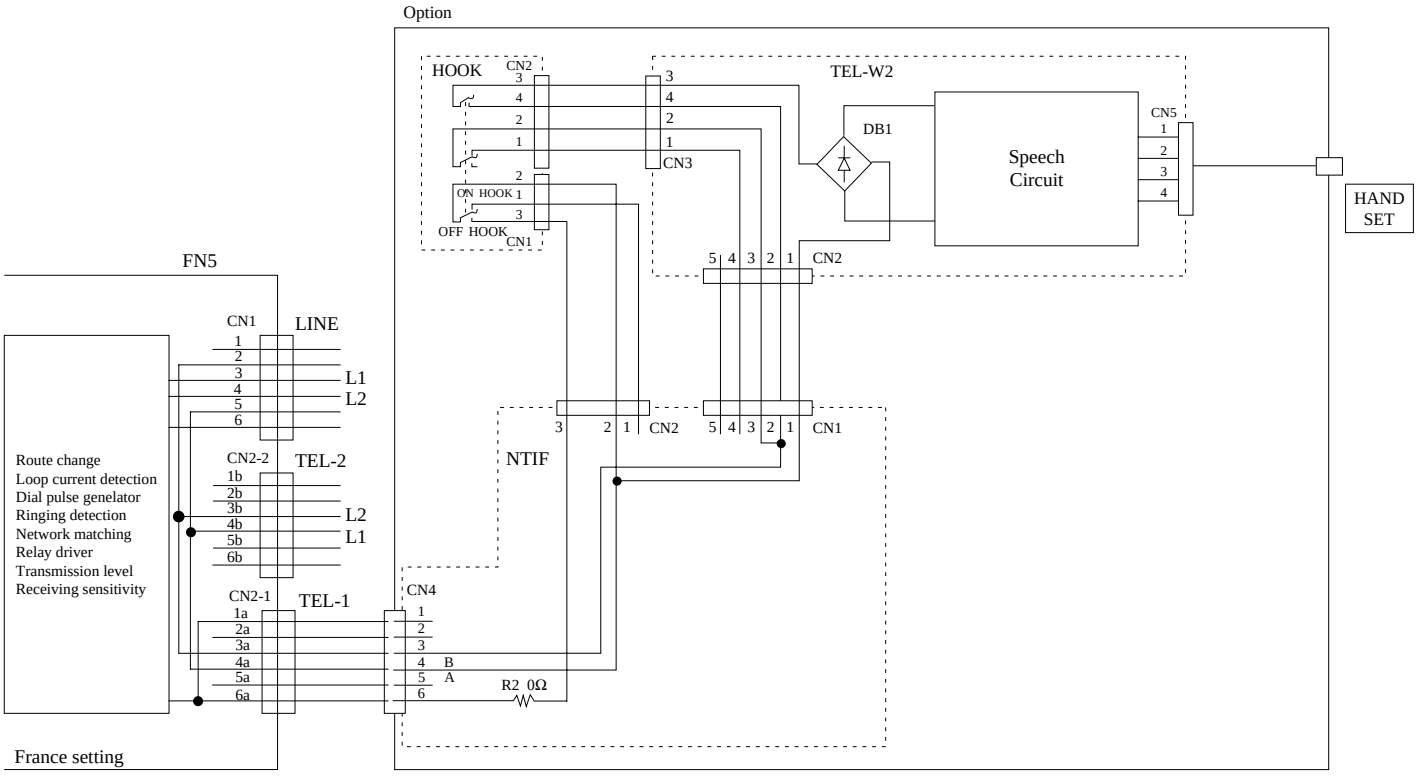

Figure A3.14.7 Relationship between FN5 and TEL-W2F for France Version

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APPENDIX B1 DESCRIPTIONS OF PRINT OPERATION (OKIOFFICE44/OKIFAX 4100)

B1.1 Electro-Photographic Processor

The electro-photographic processor prints out the image data to be sent from the main control board on sheets of paper. Figure B1-1 shows the layout drawing of the electro-photographic processor.

(1) Image drum unit

The image drum unit makes a toner adhere to the formed electrostatic latent image with static electricity. This electrostatic latent image is formed by the lights irradiated from LED heads.

(2) Electromagnetic clutch

The electromagnetic clutch controls the rotation of the hopping roller according to signals from the control block.

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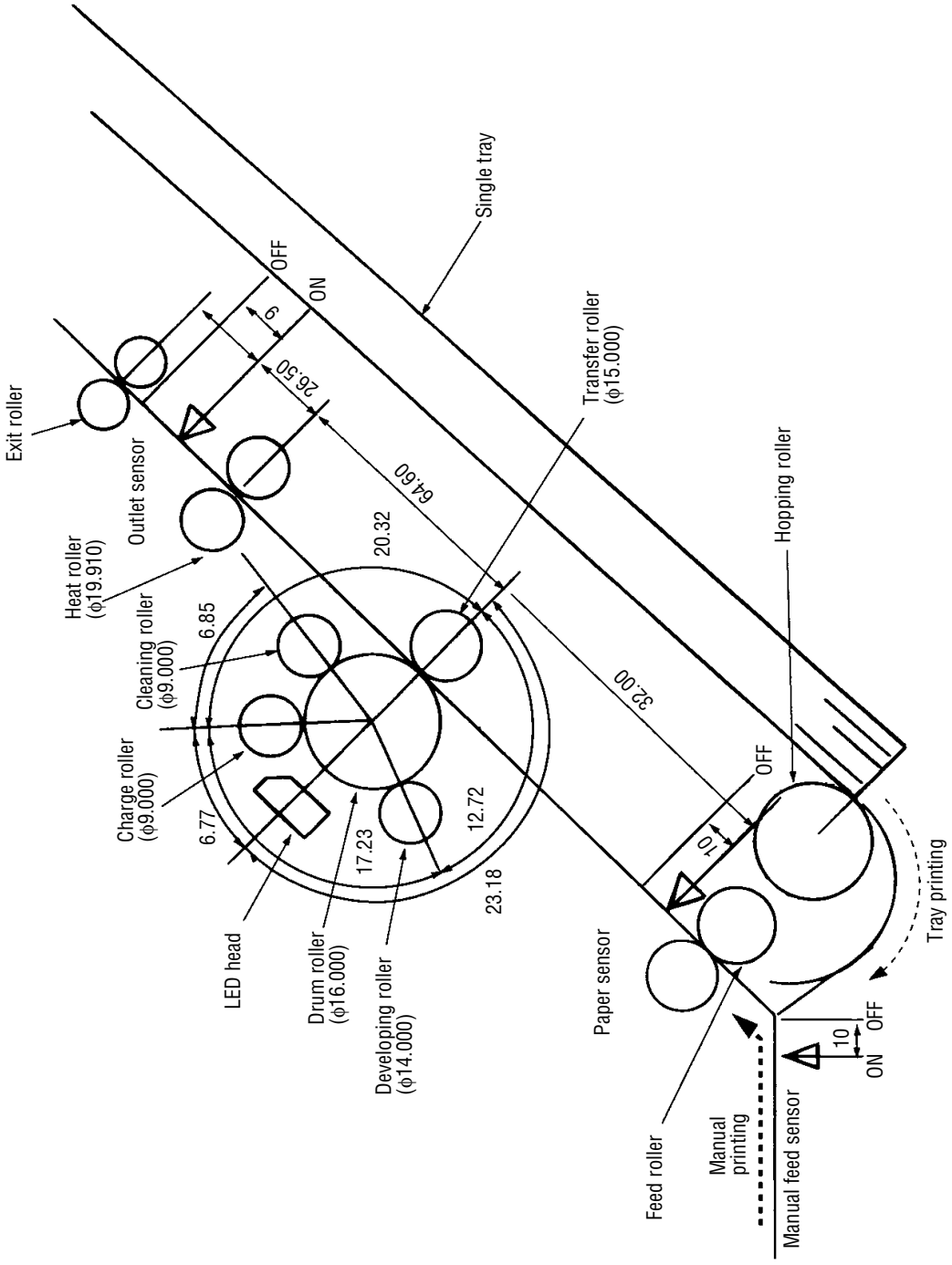

Figure B1.1 Layout Drawing of Electro-Photographic Processor

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(3) Pulse motor (Main)

This pulse motor of 48 steps/rotation is two-phase excited by the signal from the main control board; it performs feeding control by switching normal rotation to reverse rotation or vice versa and turning on/off the electromagnetic clutch. The relationship between the main motor, electromagnetic clutch, regist gear, drum gear, hopping roller is shown in the table below and on the subsequent pages.

Main Motor	Electromagnetic Clutch	Hopping Roller	Regist Gear	Drum Gear	Operation
Normal rotation	OFF	Non-rotation	Non-rotation	Rotation	Warm-up
Reverse rotation	ON	Rotation	Rotation	Rotation	Hopping
	OFF	Non-rotation	Rotation	Rotation	Prinitng

(4) LED head

The shift and latch registers receive image data from the main control board for each dot line. 2,560 or 2,496 LEDs are driven to radiate the image drum.

(5) Heat Assy

The heat Assy consists of a heater, a heat roller, a thermistor, and a thermostat.

The power supply unit supplies AC voltage to the heater according to the HEATON signal from the main control board to heat the heat roller. The main control board monitors the heat roller temperature via the thermistor and keeps the temperature constant by turning on/off the heater AC voltage supply.

If the heat roller temperature rises abnormally, the thermostat of the heater voltage supply circuit functions to forcibly suspend the AC voltage supply.

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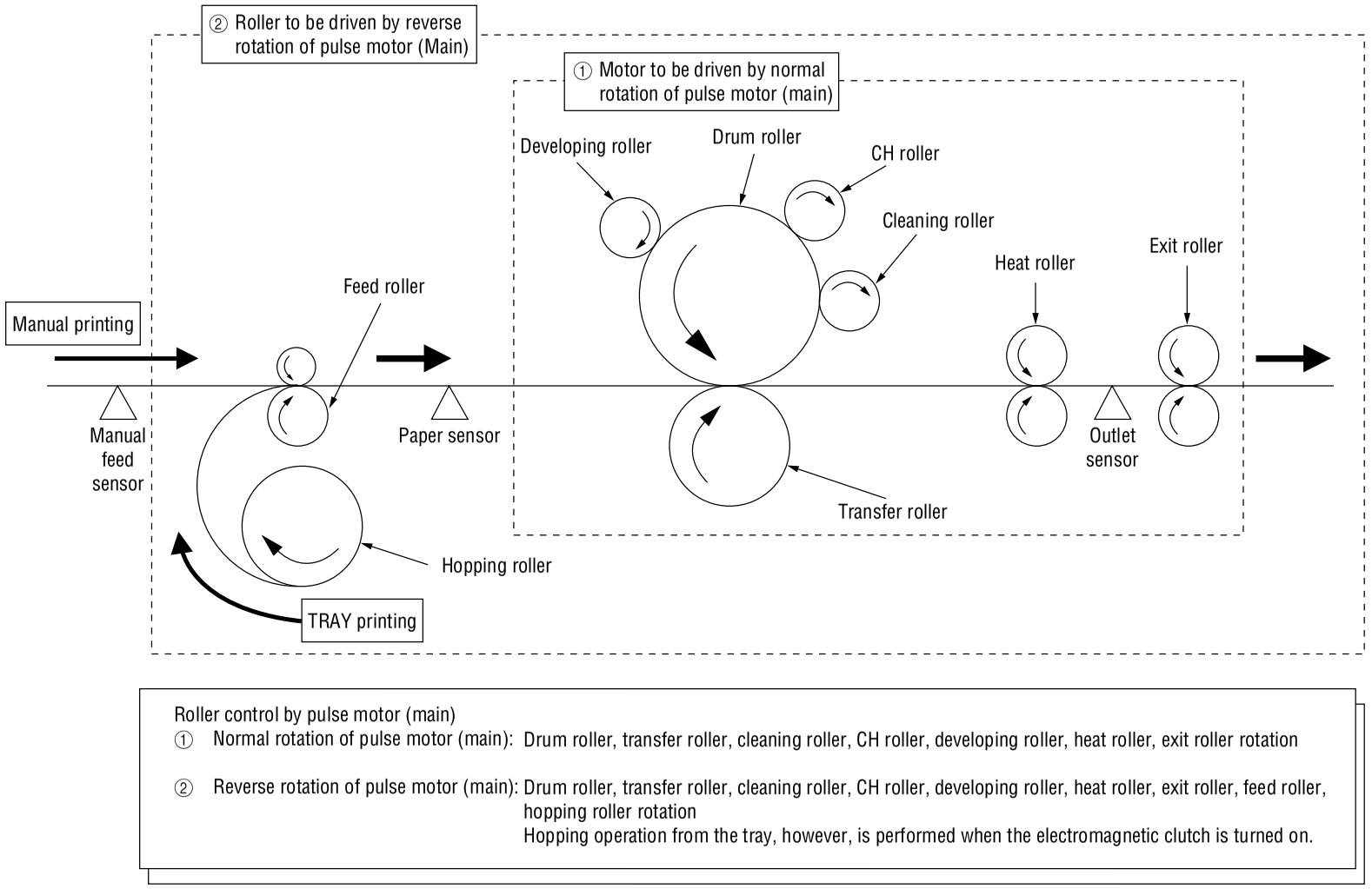
② Roller to be driven by reverse rotation of pulse motor (Main)
① Motor to be driven by normal rotation of pulse motor (main)
Developing roller
Drum roller
CH roller
Cleaning roller
Heat roller
Exit roller
Feed roller
Manual printing
Manual feed sensor
Paper sensor
Outlet sensor
Transfer roller
Hopping roller
TRAY printing
Roller control by pulse motor (main)
① Normal rotation of pulse motor (main): Drum roller, transfer roller, cleaning roller, CH roller, developing roller, heat roller, exit roller rotation
② Reverse rotation of pulse motor (main): Drum roller, transfer roller, cleaning roller, CH roller, developing roller, heat roller, exit roller, feed roller, hopping roller rotation
Hopping operation from the tray, however, is performed when the electromagnetic clutch is turned on.

Figure B1.2 Schematic Drawing of OKIFAX 4100 Paper Feeding

B1.2 Electro-Photographic Process

(1) Electro-photographic process

The electro-photographic process is outlined below.

① Charging

The surface of the OPC drum is charged negatively and uniformly by applying the DC voltage to the CH roller.

② Exposure

Light emitted from the LED head irradiates the negatively charged surface of the OPC drum. The surface potential of the irradiated surface attenuates to form the electrostatic latent image corresponding to the image signal.

③ Development and residual toner recovery

The negatively charged toner is brought into contact with the OPC drum, adhering to the electrostatic latent image on the OPC drum by static electricity. This adhesion causes the electrostatic latent image to change to a visible image.

At the same time, the residual toner on the OPC drum is attracted to the developing roller by static electricity.

④ Transfer

When paper is placed over the image drum surface, the positive charge which is opposite in polarity to that of the toner, is applied to the reverse side by the transfer roller. The toner is attracted by the positive charge and is transferred onto the paper. This results in the transfer of the toner image formed on the image drum onto the paper.

⑤ Cleaning

The cleaning roller temporarily attracts the residual toner on the transferred OPC drum with static electricity, then returns the toner to the OPC drum.

⑥ Fusing

The transferred unfused toner image is fused to a sheet of paper by applying heat and pressure to the image.

Figure B1.3 is a flow for the electro-photographic process.

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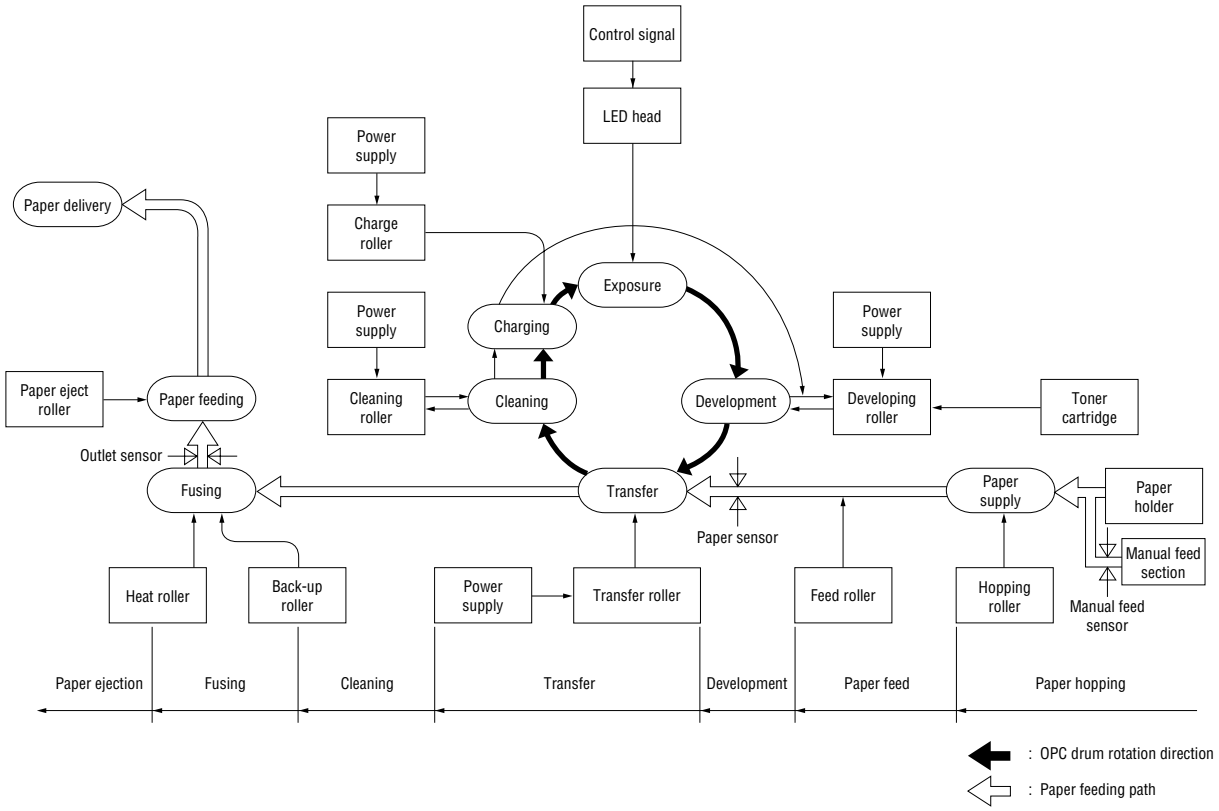

Figure B1.3 Flow for Electro-Photographic Process

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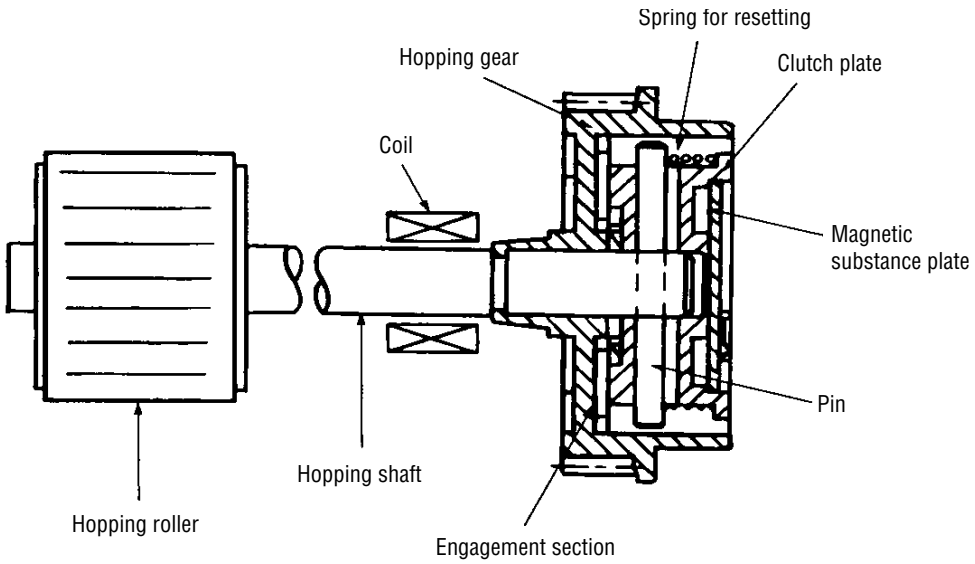
B1.2.1 Explanation of Each Process Operation

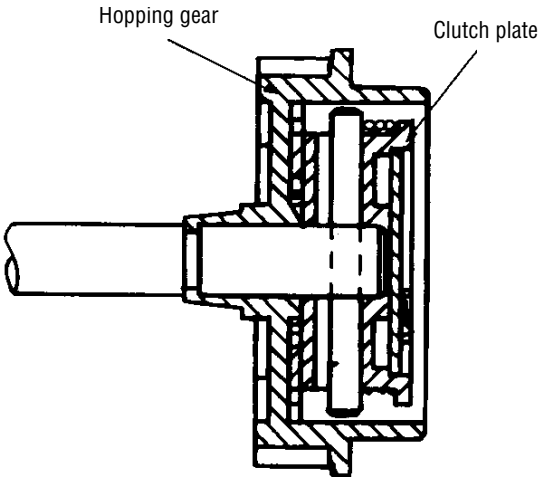
(1) Hopping

As shown in the figure below, the clutch for hopping is turned on/off according to current ON/OFF to a coil.

When the clutch is OFF



When the clutch is ON



When the clutch is on, the hopping gear engages with the clutch plate to rotate the hopping roller.

When the clutch is off, the hopping gear is separated from the clutch plate by the spring for resetting, disabling the rotation of the hopping roller.

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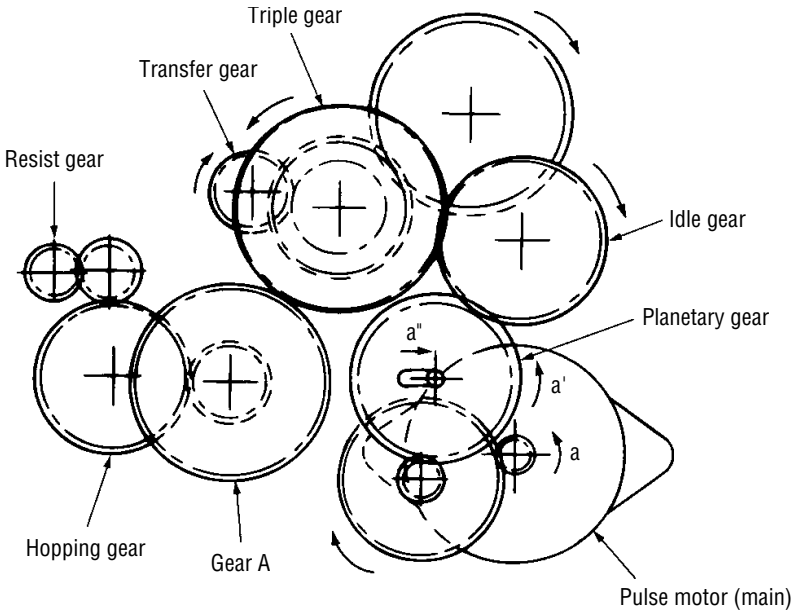
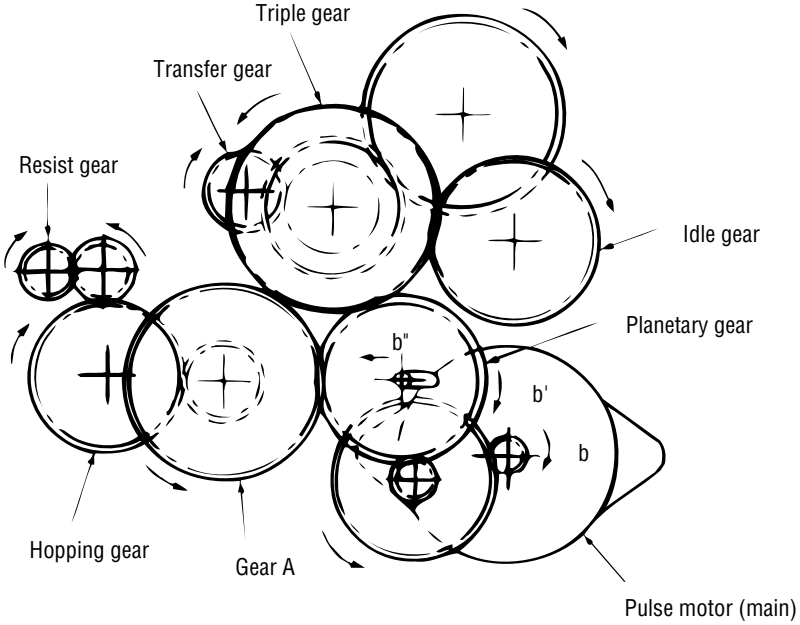
(2) Printing and warm-up

At warm-up



Rotate the pulse motor (main) in the a direction. The planetary gear rotates in the a' direction, dislocating its position in the a" direction. This causes the planetary gear to be separated from gear A. The hopping gear will not rotate. The triple gear and transfer gear rotate via the idle gear to drive the EP unit.

At printing



The paper is further advanced in synchronization to the print data.

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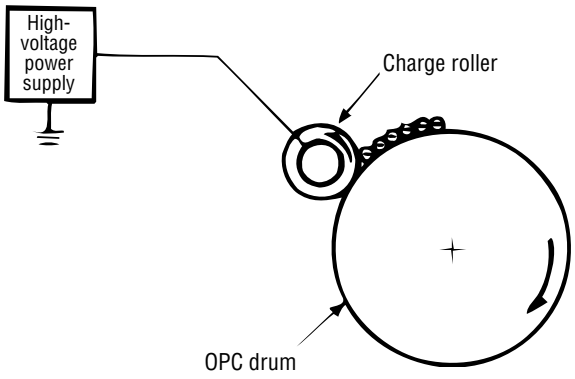
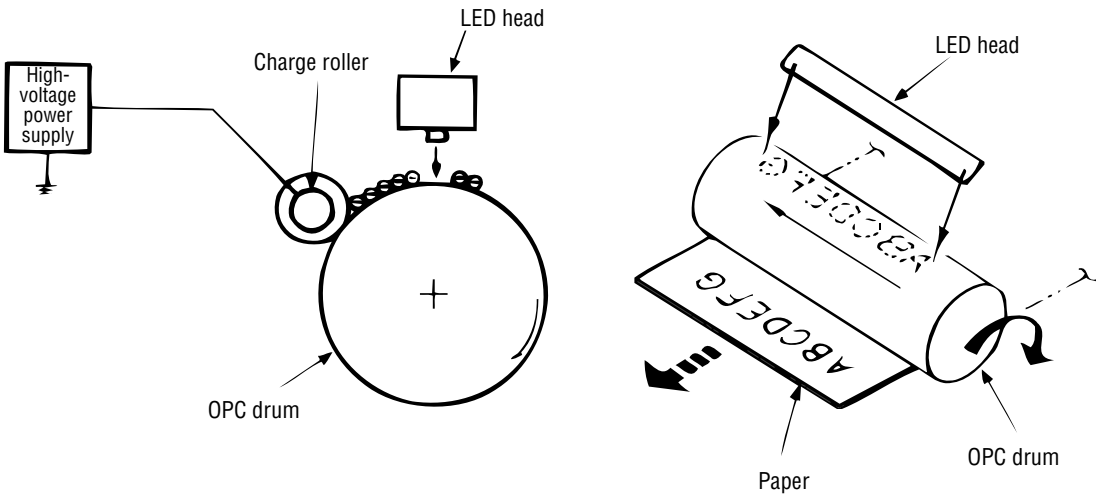
(3) Charging

Charging is performed by applying DC voltage to the charge roller that is in contact with the surface of the OPC drum.



(4) Exposure

Light emitted from the LED head irradiates the negatively charged surface of the OPC drum. The surface potential of the irradiated surface attenuates to form the electrostatic latent image corresponding to the image signal.



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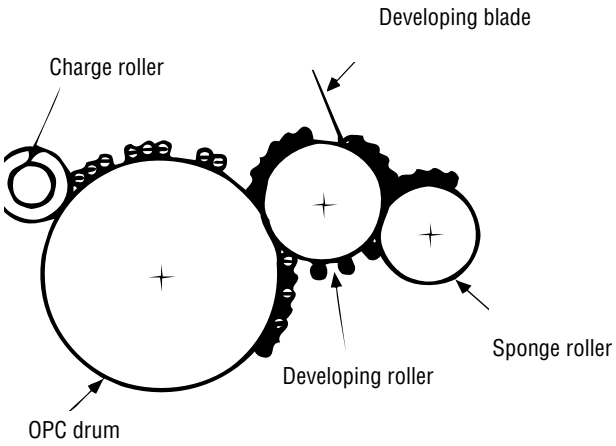
(5) Development

The electrostatic latent image on the surface of the OPC drum is changed to a visible toner image by applying a toner to it. Development is performed in the contact part between the OPC drum and developing roller.

① The sponge roller negatively charges a toner and applies it to the developing roller.



② The toner applied to the developing roller is thin-coated by the developing blade.

③ A toner adheres to the exposure part of the OPC drum in the contact part between the OPC drum and developing roller. This causes the electrostatic latent image to be changed to a visible image.

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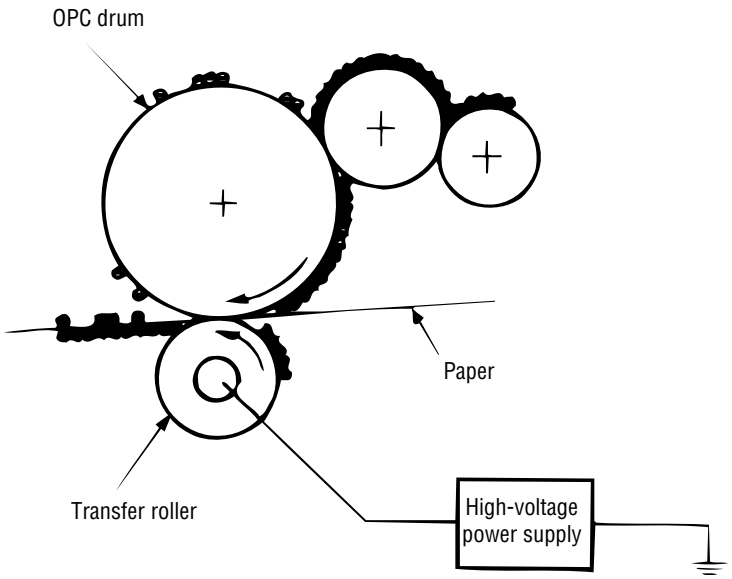
(6) Transfer

The transfer roller is composed of conductive sponge material. This roller is set so that the surface of the OPC drum and sheets of paper will adhere closely.

A sheet of paper is placed on the surface of the OPC drum and the positive charge opposite to the negative charge of a toner is applied from the reverse side by the transfer roller.

When a high negative voltage is applied from the power supply to the transfer roller, the positive charge induced on the surface of the transfer roller moves to the paper side at the contact part between the transfer roller and the sheet of paper. The positive charge on the lower side of the sheet of paper then causes the negatively charged toner adhering to the surface of the OPC drum to move to the upper side of the sheet. This enables transfer to the sheet of paper.



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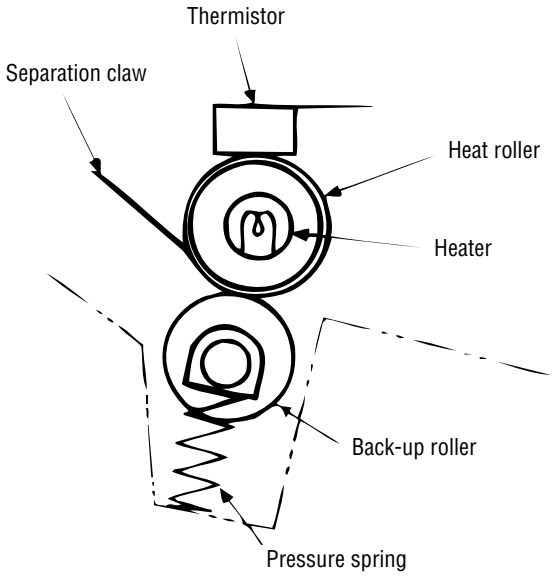
(7) Fusing

The transferred unfused toner image is fused to a sheet of paper because heat and pressure are applied when it passes between the heat roller and back-up roller.

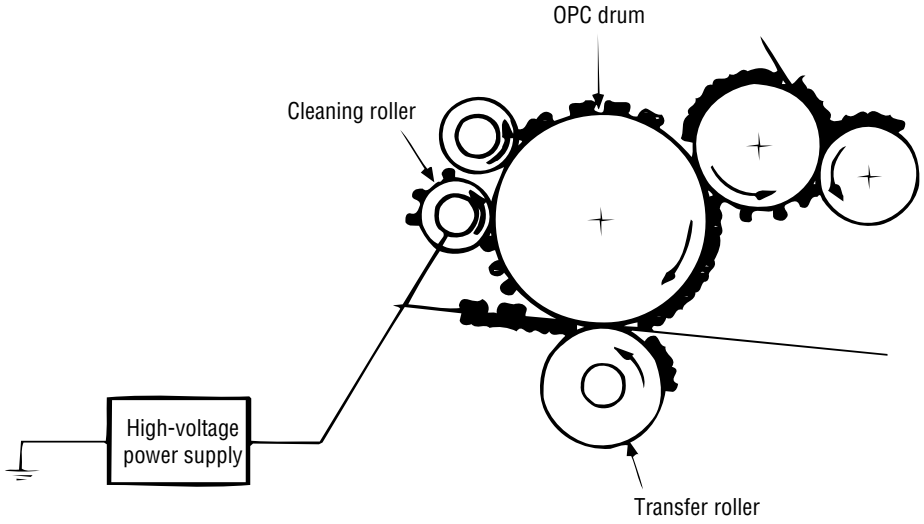
The Teflon-coated heat roller contains a 400 W heater (Halogen lamp) that heats the heat roller. The thermistor on the surface of the heat roller keeps the temperature of the heat roller constant. A thermostat is also installed for safety. If temperature rises abnormally, this thermostat opens to suspend voltage supply to the heater.

The back-up roller is pressurized to the heat roller by the pressure spring on each side.



(8) Cleaning

After transfer has terminated, the cleaning roller temporarily draws in the untransferred residual toner adhering to the OPC drum with static electricity and then returns it to the OPC drum.



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B1.3 Paper Jam Detection

The OKIOFFICE 44/OKIFAX 4100 monitors the paper status when the power supply is on and during printing. In the following cases, the OKIFAX 4100 interrupts the printing process as a paper jam. Printing can be recovered by opening the cover, removing the jammed paper, and closing the cover.

Error	Cause of Error
Paper inlet jam	• Only the manual feed sensor detects "Paper exists" when the power supply is on. • The leading part of the paper does not reach the paper sensor although hopping operation was performed three time.
Paper feed jam	• The leading part of the paper does not reach the outlet sensor within a fixed time after it has passed the paper sensor.
Paper outlet jam	• The trailing part of the paper does not pass the outlet sensor within L mm after the leading part of the paper has passed the outlet sensor. 2.52" (64 mm) ≦ L ≦ 15.77" (400.6 mm)
Paper size error	• The trailing part of the paper does not pass the paper sensor within L mm after the leading part of the paper has passed the paper sensor. 2.52" (64 mm) ≦ L ≦ 15.77" (400.6 mm)

Paper Feed Check List

Type of Error	Supervisory Sensor	Reference Value	Error	
			Pluse	Minus
Paper feed error	Electromagnetic clutch ON/ Paper sensor ON	69.8	35	—
Paper feed jam1	Paper sensor ON/ Outlet sensor ON	122.9	20.0	—
Paper size error	Paper sensor ON/ Paper sensor OFF	2.52" (64 mm) ≦ L ≦ 15.77" (400.56 mm)	—	—
Paper outlet jam	Outlet sensor ON/ Outlet sensor OFF	2.52" (64 mm) ≦ L ≦ 15.77" (400.56 mm)	45.0	45.0
Paper feed jam 2	Paper end sensor OFF/ Outlet sensor OFF	121.9	20.0	20.0

Unit: mm

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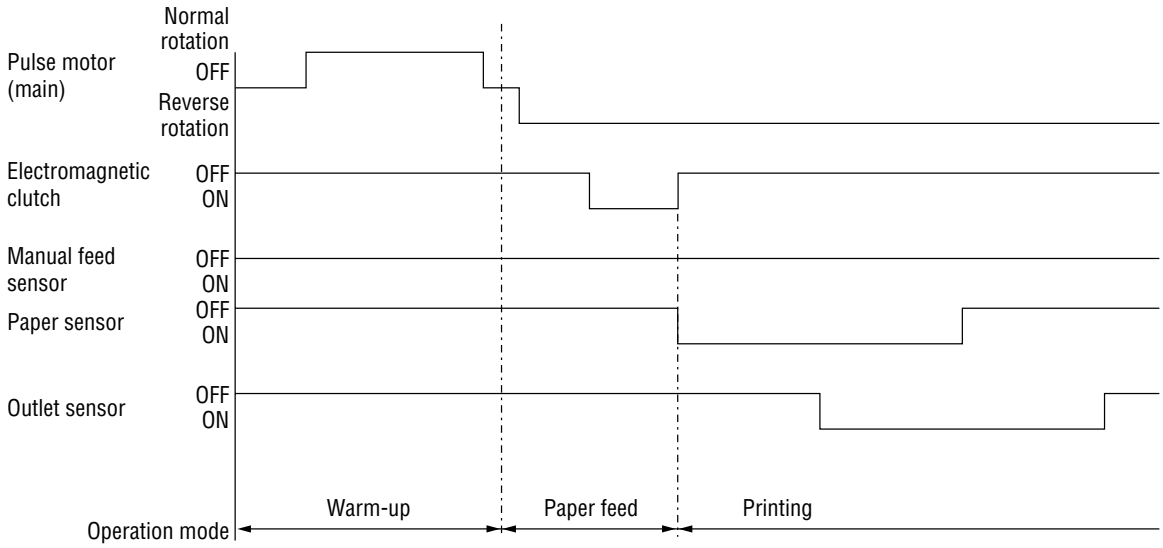

Timing Chart for Paper Feed (Tray Feed)

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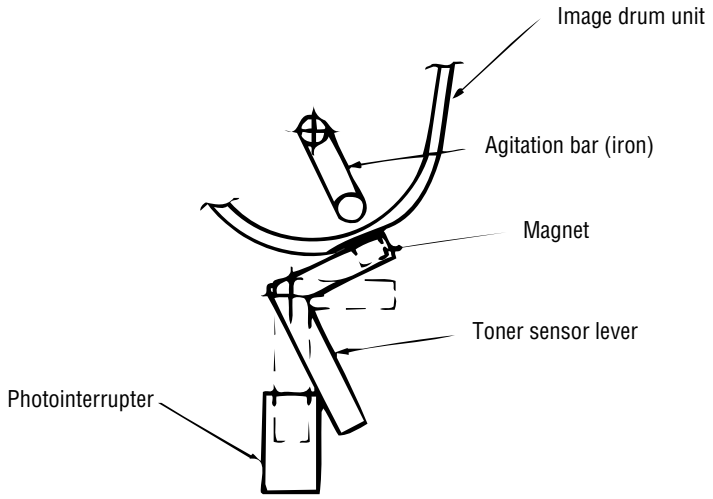
B1.4 Toner Low Detection

- Hardware configuration of toner sensor

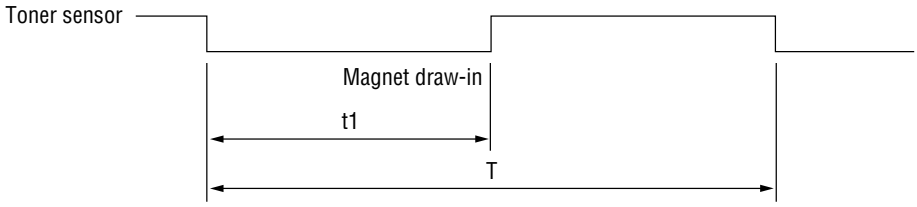
  The figure below shows the hardware configuration of the toner sensor.



Hardware Configuration of Toner Sensor

- Toner detection method

  (1) Toner sensor monitoring conditions are shown in the figure below.



Caution: The toner sensor is not monitored when the drum is inactive.

(a) When the toner-low state continues twice, Toner Low occurs. (This state is monitored at a cycle of 40 milliseconds.)

(b) When the toner-full state continues twice, Toner Low is released. (This state is monitored at a cycle of 40 milliseconds.)

(c) When the toner sensor does not change over two cycles (T x 2), the toner sensor alarm state occurs.

(d) After the EP unit has been replaced (after the drum counter has been reset), Toner Low is not detected when the drum counter indicates 1 to 100 counts.

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(2) The basic rotation cycle of the toner sensor is as follows:

	T time
Basic rotation cycle of toner sensor	4.9 sec.
Toner low time	t1 > 1.2 sec.
Toner full time	1.2 sec. > t1 >

B1.5 Cover Open

Opening the stacker cover turns off the microswitch on the high-voltage power supply board to suspend +5 V supply to the high voltage power supply. This results in the stop of all high-voltage outputs. At the same time, the CVOPN signal is issued to notify the main control board of the switch status and cover open processing is executed.

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APPENDIX B2 DESCRIPTIONS OF PRINT OPERATION (OKIFAX 5000 SERIES)

B2.1 Mechanical Components

1) EP drum cartridge

The EP (image) cartridge consists of an EP (image) drum, a charger, and a developer. The cartridge forms a toner image on the drum, using an electrostatic latent image formed by the LED print head.

2) Resist motor

This resist motor is a pulse motor of 48 steps/rotation that is two-phase excited by the signal from the M17 board. It drives the hopping roller and the resist roller via two one-way clutches according to the direction of rotation.

3) Drum motor

This drum motor is a pulse motor of 48 steps/rotation that is two-phase excited by the signal from the M17 board and is the main motor of this mechanism.

4) LED head

Image data for each dot on a line from the M17 board is received by the shift registers and latch registers. The Letter size LED head are driven to radiate the image data on to the EP (image) drum.

5) Fuser

The fuser consists of a heater, a heat roller, a thermister and a thermostat.

An AC voltage from the power supply board (1VP/2VP) is applied to the heater under the control of the HEAT-N signal from the M17 board. This AC voltage heats the heater. The M17 board supervises the heat roller temperature via the thermistor, and regulates the heater roller at a predetermined temperature (about 185 ˚C for OKIFAX 5000 series) by connecting or disconnecting the AC voltage supply to the heater.

If the heater roller temperature rises abnormally, the thermostat of the heater voltage supply circuit is activated to cut off the AC voltage supply forcibly.

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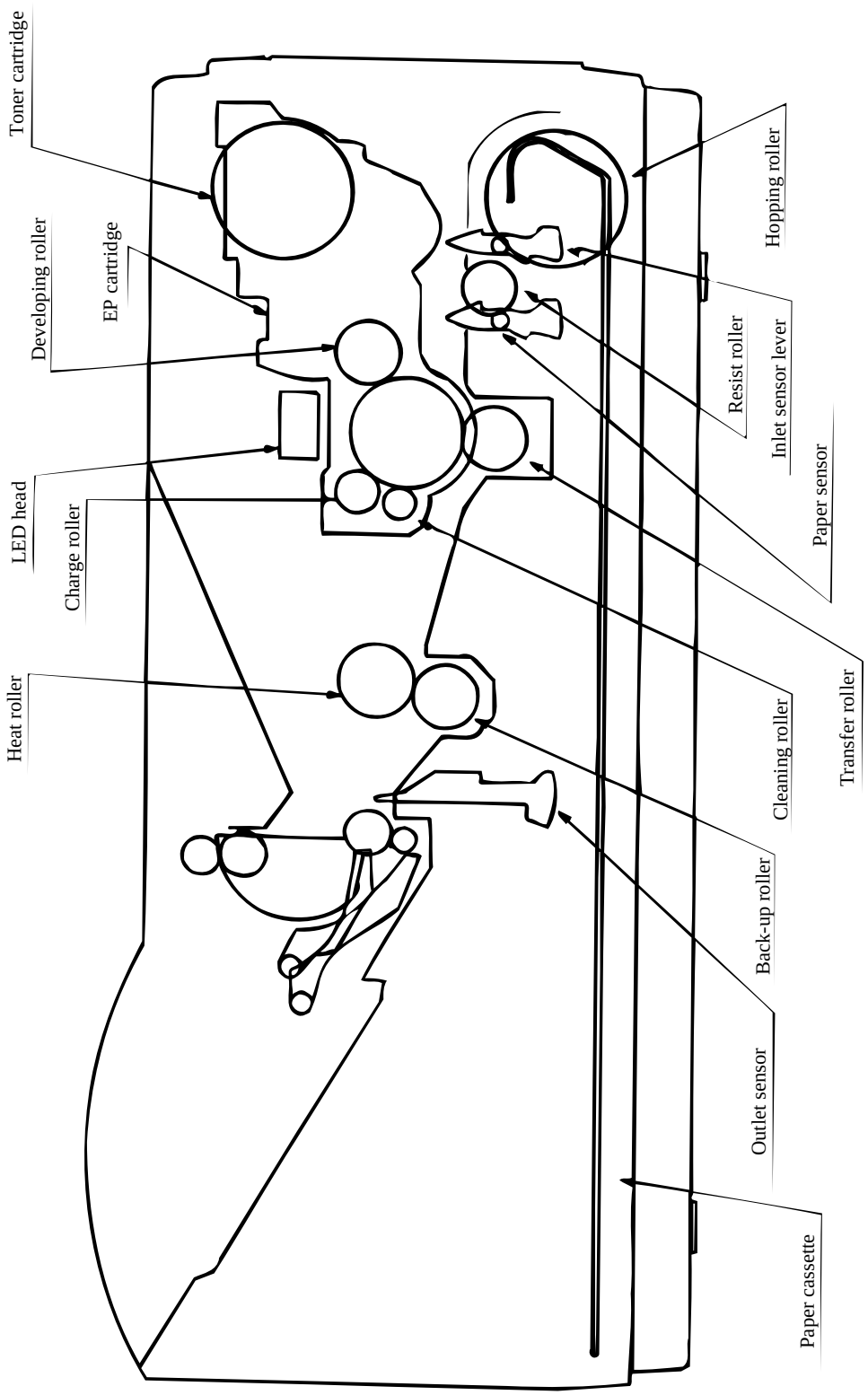

Figure B2.1 Layout of Print Station Components

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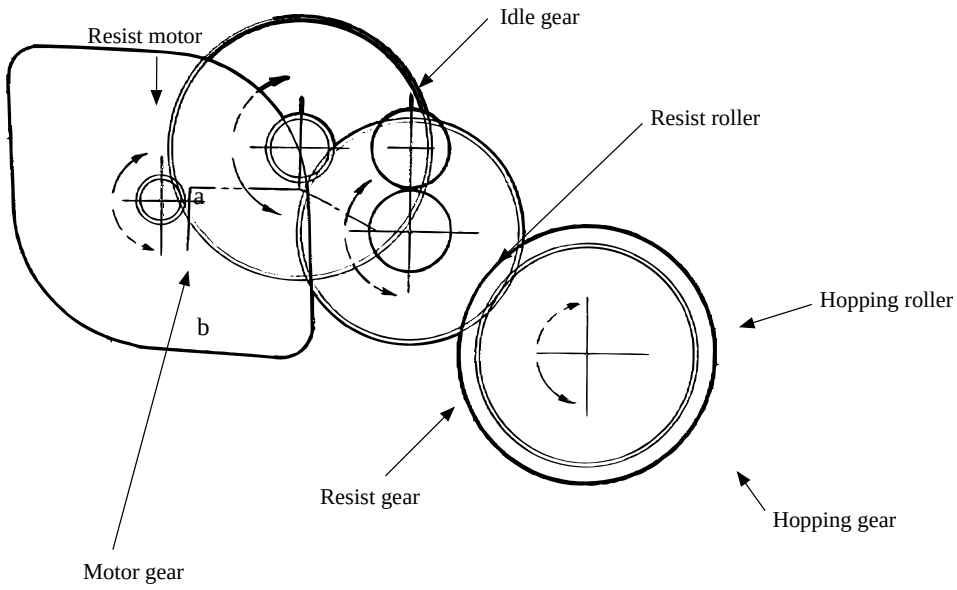
B2.2 Description of Print Operations

B2.2.1 Process Operations

1) Hopping and feeding

Hopping and feeding are affected by a single resist motor in the mechanism shown below.



Turning the resist motor in the "a" direction drives the hopping roller. Turning the resist motor in the "b" direction drives the resist roller. The resist gear and hopping gear contain one-way clutch, so that turning each of these gears in reverse direction will not be transmitted to the corresponding roller.

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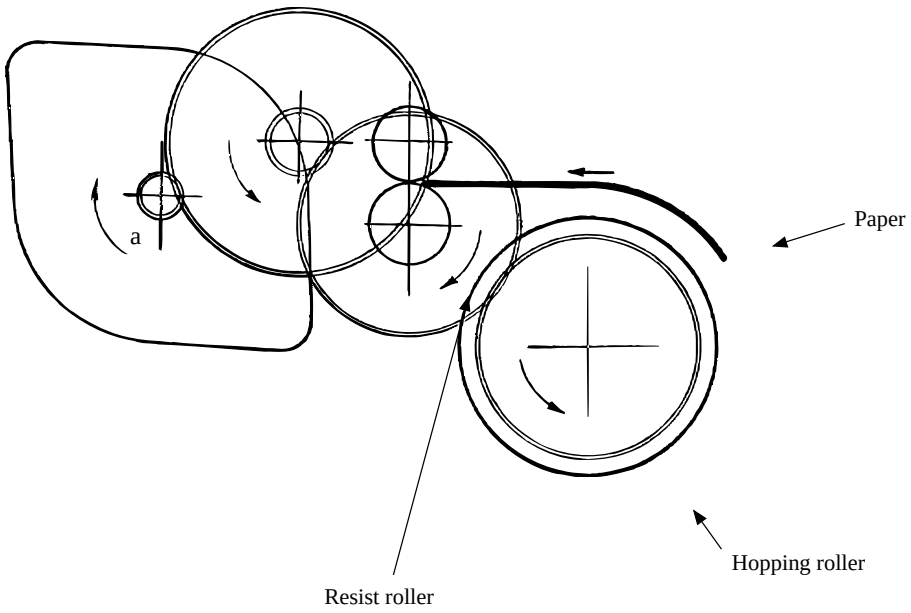
(a) Hopping

① Hopping turns the resist motor in the "a" direction (in the CW direction) and drives the hopping roller to advance the paper until the inlet sensor turns on. (In this case, the resist gear also turns, but the resist roller is prevented from turning by the one-way clutch gear.)

② After the paper has turned on the inlet sensor, the paper is further advanced by a predetermined length until the paper hits the resist roller. (The skew in the paper can thus be corrected.)



CW = Clockwise

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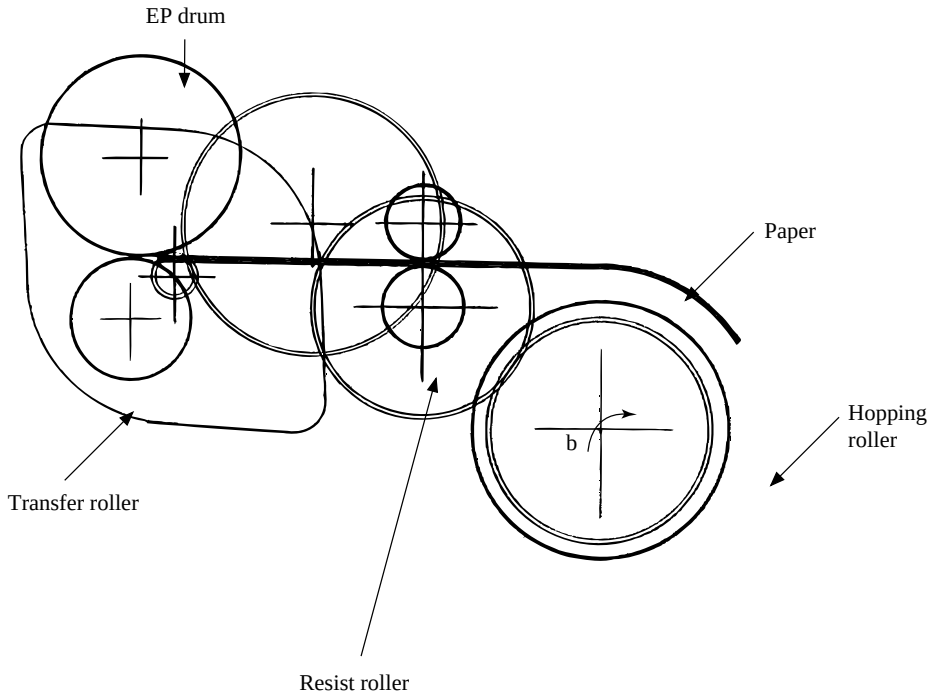
(b) Feeding

① After end of hopping, turning the resist motor in the "b" direction (in the CCW direction) drives the resist roller to advance the paper. (In this case, the hopping gear also turns, but the hopping roller is prevented from turning by the one-way clutch gear.)

② The paper is further advanced in synchrony with the print data.



CCW = Counterclockwise

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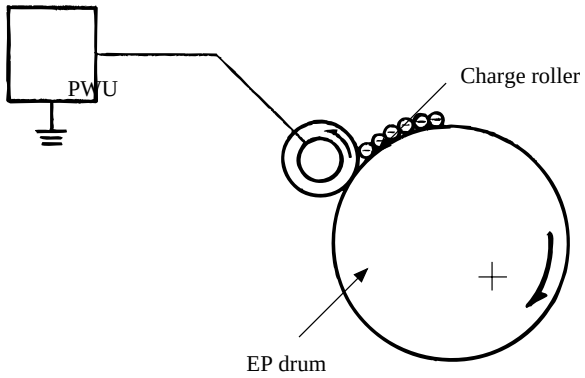
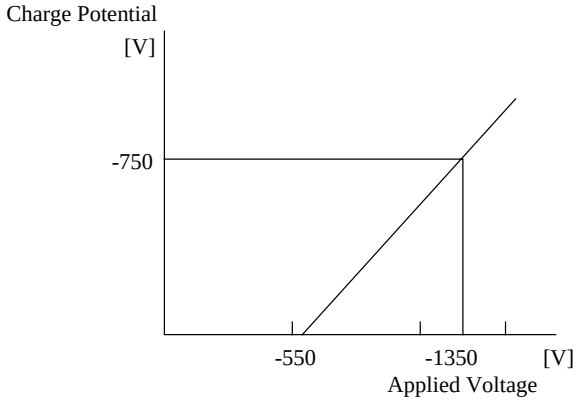
2) Charging

Charging is affected by applying a DC voltage to the charge roller thta is in contact with the EP (image) drum surface.



The charge roller is composed of two layers consisting of a conductive layer and a surface protective layer that has elasticity, in order to secure a good contact with the EP (image) drum. When the DC voltage (-1.35 KVDC) applied from the Power Supply Unit exceeds a threshold value, charging begins. The applied voltage is proportional to charge potential with off set of approx. -550V.



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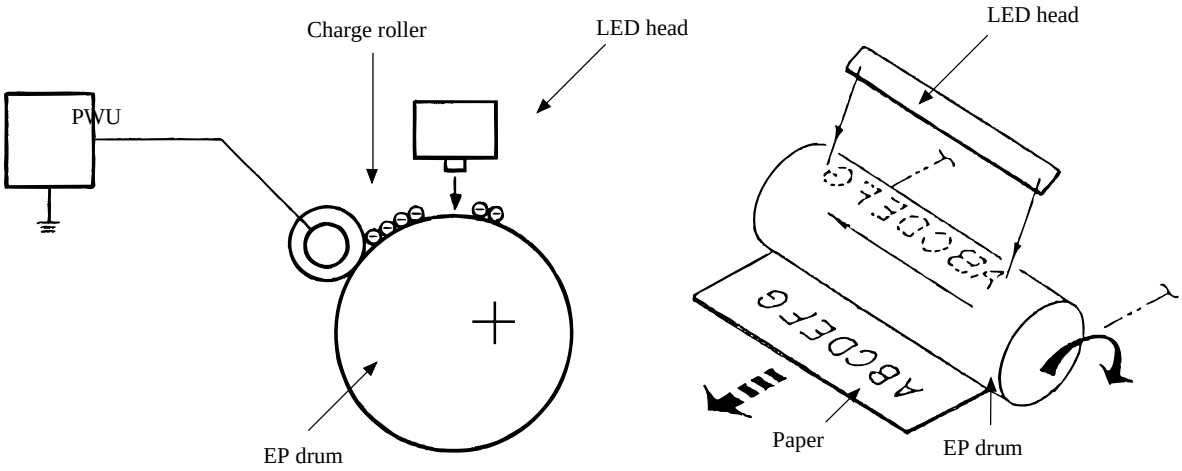
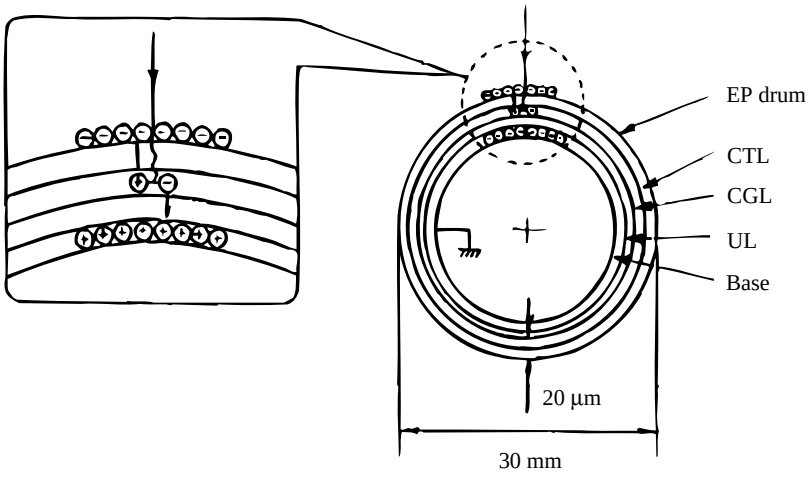
3) Exposure

Light emitted from the LED head irradiates the EP (image) drum surface with negative charges. The surface potential of the irradiated part of the EP drum drops, thereby forming an electrostatic latent image associated with the image signal.



The EP (image) drum is coated with an underlayer (UL), a carrier generation layer (CGL), and carrier transfer layer (CTL) on the aluminum base. The organic photo conductor layer (OPC), comprising a CTL and a CGL, is about 20 µm thick.



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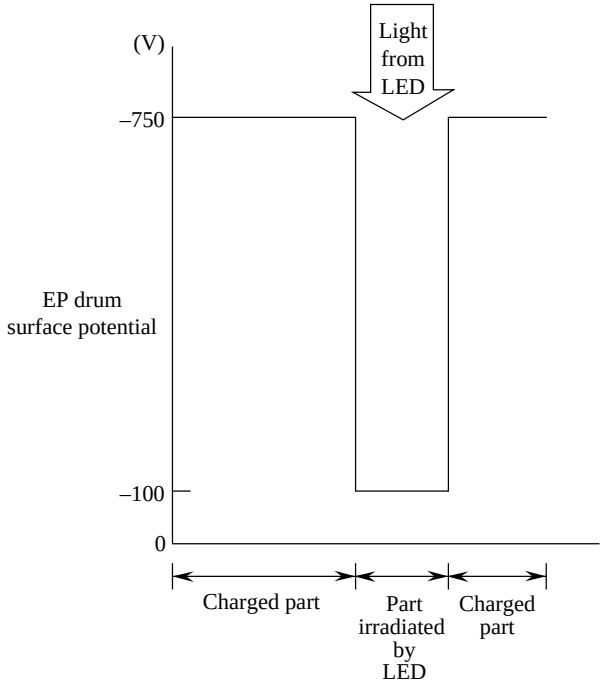
The EP (image) drum surface is charged to about -750 V by the contact charge of the charge roller.

When light from the LED head irradiates the EP (image) drum surface, the light energy generates positive and negative carriers in the CGL. The positive carriers are moved to the CTL by an electrical field acting on the EP (image) drum. Likewise, the negative carriers flow into the aluminum layer (ground).

The positive carriers moved to the CTL combine with the negative charges on the EP (image) drum surface accumulated by the contact charge of the charge roller, lowering the potential on the EP (image) drum surface. The resultant drop in the potential of the irradiated part of the EP (image) drum surface forms an electrostatic latent image on it. The irradiated part of the EP (image) drum surface is kept at about -100 V.



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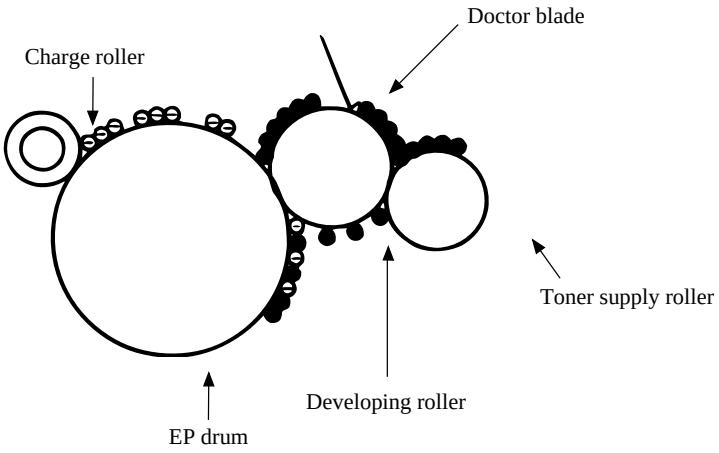
4) Developing

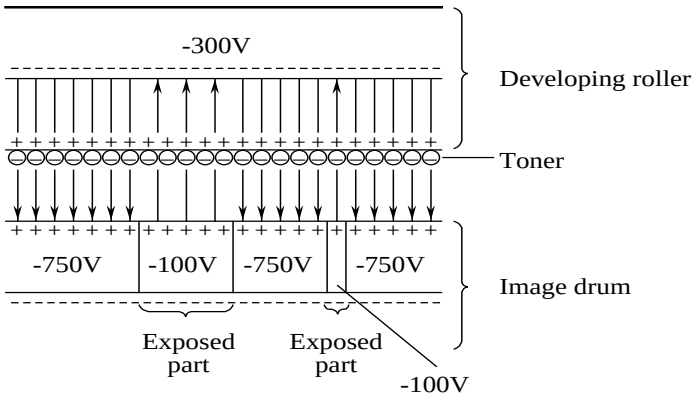
Toner is attracted to the electrostatic latent image on the EP (image) drum surface to convert it into a visible toner image. Developing takes place at the contact between the EP (image) drum and the developing roller.

① As the toner supply roller rotates while rubbing on the developing roller, a friction charge is generated between the developing roller and the toner, allowing the toner to be attracted to the developing roller. (The developing roller surface is charges positive and the toner, negative.)



② The toner attracted to the developing roller is scraped off by the doctor blade, forming a thin coating of toner on the developing roller surface.

③ Toner is attracted to the exposed part (low-potential part) of the EP (image) drum at the contact between the EP (image) drum and the developing roller, making the electrostatic latent image visible.



An illustration of activities at the contact point of the image drum surface and the developing roller (arrow marks denote the direction of the electric field).

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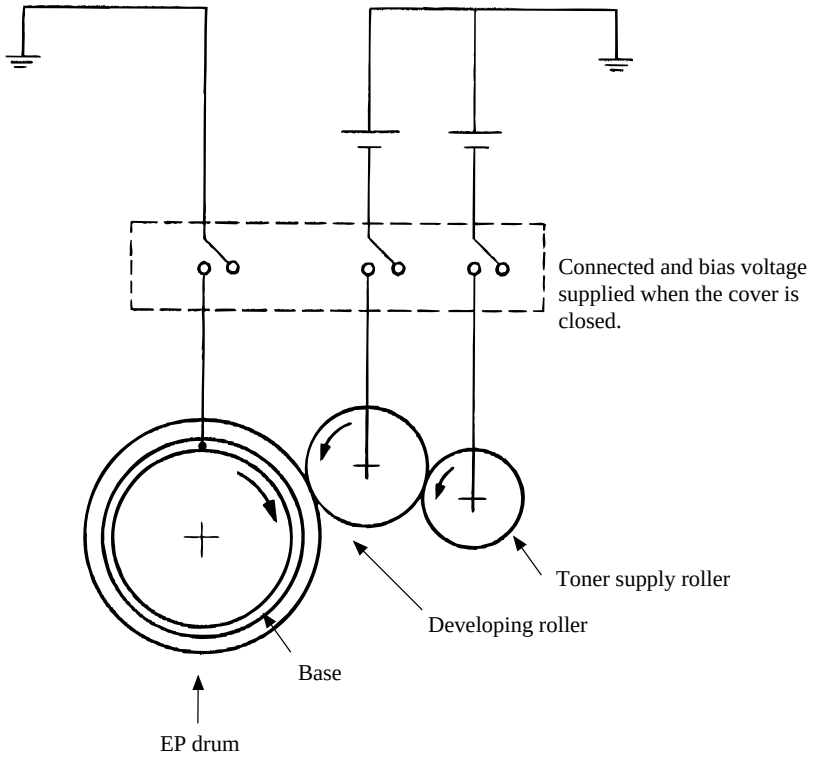
Note: The toner supply roller and the developing roller are supplied with bias voltages required during the developing process as shown below. -450 VDC is supplied to the toner supply roller, -300 VDC to the developing roller.



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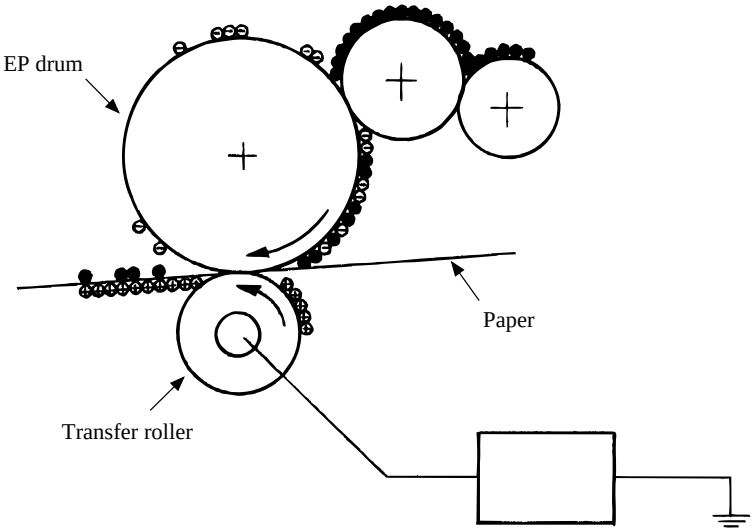
5) Transfer

The transfer roller is composed of conductive sponge material and is designed to make the EP (image) drum surface and the paper closely into contact.

Paper is placed over the EP (image) drum surface, and a positive charge, opposite in polarity to the toner, is applied to the paper from its reverse side.

The application of a high positive voltage (+1 KVDC) from the Power Supply Unit (1VP/2VP board) to the transfer roller causes the positive charge induced on the transfer roller surface to be transferred to the paper at the contact between the transfer roller and the paper. As a result, toner charged negative that is attracted to the EP (image) drum surface is transferred to the upper side of the paper by the positive charge on the lower side of the paper.



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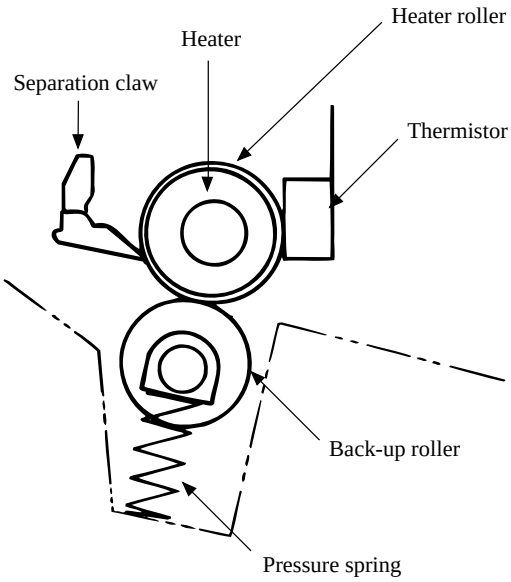
6) Fusing

After the end of the transfer operation, the unfused toner image is fused on the paper under heat and pressure as it passes between the heater roller and the back-up roller. The heater roller with a Teflon coating incorporates a 500 W heater (Halogen lamp), which heats the heat roller.

A thermister, which is in contact with the heater roller, regulates the heater roller at a predetermined temperature (about 185 ˚C for OKIFAX 5000 series). A safety thermostat cuts off voltage supply to the heater by opening the thermostat in the event of abnormal rise in temperature.

The back-up roller is held under a pressure of 2.5 kg by the pressure spring at each side.



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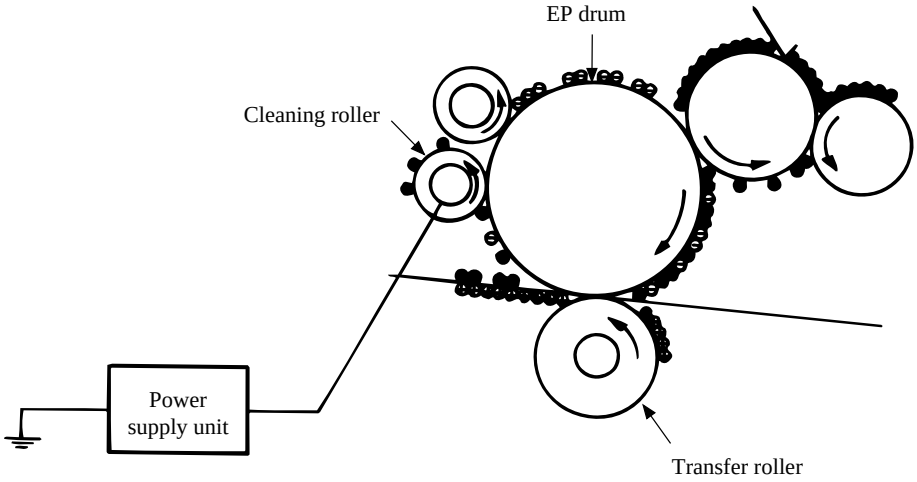
7) Cleaning

After the end of the transfer, residual toner on the EP (image) drum is attracted to the cleaning roller temporarily by static electricity to clean the EP (image) drum surface.



8) Cleaning of rollers

The charge roller, transfer roller and cleaning roller are cleaned in the following cases:

- In warning up at power-on time
- In warning up after the cover is opened and closed
- When the number of accumulated sheets is 10 or more and the printout operation ends

Changes in bias voltage applied to each roller move adhesive toner from the roller to the EP (image) drum and return it to the developer.

	Cleaning "NO" (V)	Cleaning "YES" (V)
DB+	—	+300 V
DB-	-300 V	-300 V
TR+	+1000 V	+1000 V
TR-	—	-750 V
CB (cleaning)	+400 V	+400 V
CH-	-1350 V	-1350 V

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B2.3 Errors

B2.3.1 Errors List

The errors are listed below.

1) Major trouble errors

- Fuser error
- Fan error
- Paper supply error
- Paper transport system error
- Paper exit jam
- Paper size error
- 2'nd tray communication error
- Cover open

2) Recoverable errors

- 2'nd tray route open
- No cassette in 2'nd tray
- No paper in 1'st cassette
- No paper in 2'nd cassette

3) Alarms (warning)

- Low toner
- Paper width error

Note:

1. The major trouble errors do not recover after an error has been removed unless a reset is not performed.
2. A recoverable error resets automatically by itself once the cause of error has been removed. Printing is not possible while an error is existing.
3. The alarm serves as a warning only and the printing operation is performed.

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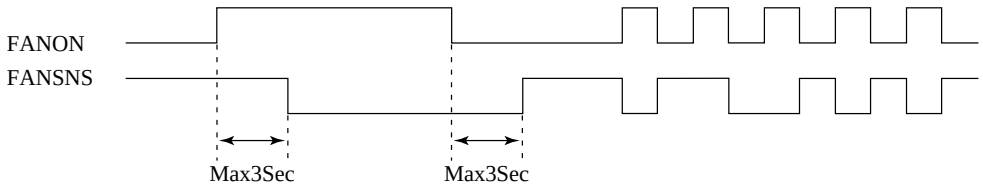
B2.3.2 Major Trouble Errors

B2.3.2.1 Fuser Error

The fuser error indicates an error in thermister on heater.
In case the fuser error occurs at the time of printing, the heater is turned off soon but the printing continues of that page.
However, if the error occurs before the write sensor is turned on, the motor stops soon.

B2.3.2.2 Fan Error

The fan error is generated when the FANSNS signal lead goes "1" while the fan is running at full speed.
Operation of the FANSNS signal when the fan is turned on is described below.



Since the fan alarm is not monitored during printing, the fan alarm does not appear from the moment the printing is started until the completion of printing operation.
In other words, the printing will continue even if the fan alarm occurs during printing.

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B2.3.2.3 Paper Feed Monitoring

Status	Description and Supervising Sensor	Distance
Paper supply error	Indicates monitoring error in hopping. Hopping is retried 3 times.	118 mm or less path Length +36 (hopping) x 3
Transport system jam 1	Indicates an error in the paper transport path. Error on resist roller section. From resist ON to write sensor (PS2) ON.	30 mm or less Inlet ~ write +20
Transport system jam 2	From inlet sensor OFF up to write sensor OFF.	44 mm or less
Transport system jam 3	Indicates an error in the paper transport system. Error of transfer roller and/or heat roller. From write sensor ON to outlet sensor ON.	207 mm or less Write ~ outlet +69
Paper size error	Indicates paper size other than specified one. From resist ON to inlet sensor OFF.	Recording paper +/- 45 mm
Paper outlet jam 1	Supervises slipping of the recording paper. From outlet sensor ON to OFF.	Recording paper +/- 45 mm
Paper outlet jam 2	Supervises jamming at the near paper outlet. From outlet sensor ON to OFF. When a crumpled recording paper is detected, the outlet sensor is set to "OFF" earlier than usual.	135 mm or less: NG

B2.3.2.4 2'nd Tray Communication Error

This error is generated if on sending a command to the 2'nd tray is returned no-status (40s) or an undefined status. However, in case there is no status when reset, it will be considered that the 2'nd tray is not mounted.

B2.3.2.5 Cover Open

Cover open sensor "0" indicates an open cover.
When the cover is closed the CU (control unit) section sends the reset signal and processes in the same way as if the power has been turned on.

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B2.3.3 Recoverable Errors

The three recoverable errors are listed in the table below.

Status	Description and Supervising Sensor
2'nd tray route open	Paper supply route from the option 2'nd tray to the main body is open, recording paper of the 1'st tray is being replaced.
No paper in 1'st cassette	No paper has been detected by the 1'st tray's paper sensor. No paper has been detected by paper sensor in "1" state.
No paper in 2'nd cassette	Response from the option tray indicated no paper in 2'nd tray.

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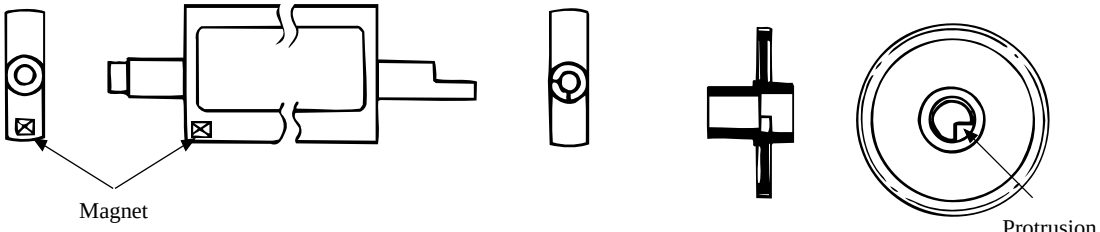
B2.3.3.1 Toner Low Detection

- Composition
  The device consists of the stirring gear which rotates at a constant rate, the stirring bar and the magnet on the stirring bar. The stirring bar rotates through the link on the protrusion in the stirring gear.

  The configuration of stirring bar in the figure below may differ. The principle of toner detection, however, remains the same.

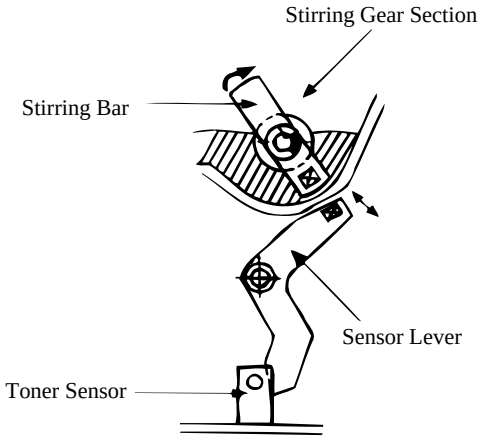


Stirring Bar　　Stirring Gear

- Operation
  Toner Low is detected by monitoring the time interval between the encounter of the magnet set on the sensor lever and the magnet on the stirring bar.

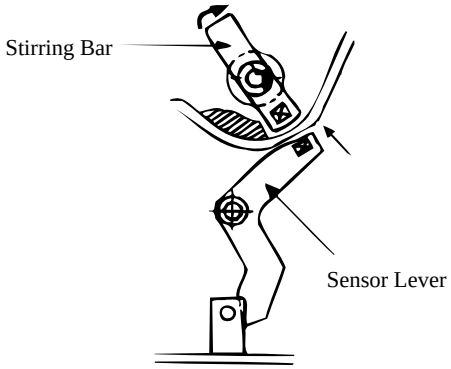
Operation during toner full state

- The stirring bar rotates due to interlocking with the stirring gear.
- Even when the magnet on the stirring bar reaches the maximum height, since the other side is being dipped in the toner, the stirring bar is pushed by the stirring gear.



Operation during toner low state

- When the stirring bar reaches the maximum height, since there is no resnstance provided by the toner on the other side, it falls to the minimum height due to its own weight. Because of this, the time interval during which it is in encounter with the magnet of the sensor lever becomes long. By monitoring this time interval, toner low can be detected.



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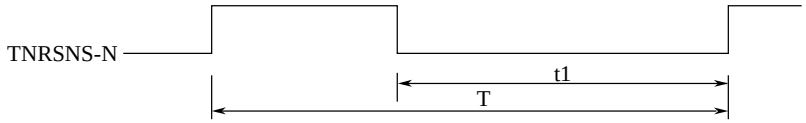
Low Toner Alarm

A check for low toner is carried out at all times when the drum is rotating (rotation in opposite direction is excluded).

- The toner sensor is not monitored while the drum motor is in halt.

TONER FULL state

TONER LOW state



- When the toner low state is detected 2 times consecutively, Toner Low is established.
- When the toner full state is detected 2 times consecutively, Toner Low is cancelled.
- When there is no change with the toner sensor for 2 cycles (6.5 sec. x 2) or more, then the Toner Sensor Alarm is activated.

Printing Speed	T	t1 (Toner Exists)	Remarks
8 ppm	3.2 sec.	0.16 ~ 1.00 sec.	OKIFAX 5000 series

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B2.4 Other Special Cases

B2.4.1 Manual Paper Feed

Turning on of the inlet sensors without the hopping operation indicates manual paper feeding for OKIFAX 2350/2450 (excluding when power is on).

B2.4.2 Cleaning

The image drum needs cleaning since it gets dirty after having printed copies for a number of times.

The two kinds of cleaning are listed in the table below:

Cleaning Type	Function	Remarks
Cleaning	This cleaning removes the toner whose electric potential is reversed due to poor electrification, or removes the toner whose electric potential is insufficient on the image drum surface. (Recovery of the toner to developing roller)	Cleaning is performed when the number of prints exceed 10 sheets or the one-job operation ends. (At the end of communication or copy operations)
CH (charge roller) cleaning	This cleaning removes the residual toner on the charging roller surface. The toner is removed by moving to the recording paper from charging roller and image drum.	User operation

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APPENDIX C CIRCUIT DIAGRAM AND PARTS LIST

CONTENTS

No.	ITEMS	OKIOFFICE 44	OKIFAX 4100	OKIFAX 5200	OKIFAX 5300	OKIFAX 5500	OKIFAX 5600
1	R44 Circuit diagram and Parts list	○	○				
2	04W Circuit diagram and Parts list	○	○				
3	UNC Circuit diagram and Parts list	○			○		○
4	WN5 Circuit diagram and Parts list		○	○		○	
5	DN5 Circuit diagram and Parts list		○	○		○	
6	FN5 Circuit diagram and Parts list		○	○		○	
7	048_POW (120V) Circuit diagram and Parts list	○					
8	048_POW (230V) Circuit diagram and Parts list		○				
9	TLHV Circuit diagram and Parts list	○	○				
10	CTR Circuit diagram and Parts list (option)	○	○*	○*	○*	○*	○
11	MEM Circuit diagram and Parts list (option)	○	○				
12	TELU Circuit diagram and Parts list (option)	○			○		○
13	TEL-W1 Circuit diagram and Parts list (option)		○	○		○	
14	TEL-W2(AB) Circuit diagram and Parts list (option)		○	○		○	
15	TEL-W2(ABB) Circuit diagram and Parts list (option)		○	○		○	
16	TEL-W2D Circuit diagram and Parts list (option)		○	○		○	
17	TEL-W2F Circuit diagram and Parts list (option)		○	○		○	
18	NTIF Circuit diagram and Parts list (option)		○	○		○	
19	TENKEY Circuit diagram and Parts list (option)		○	○		○	
20	HOOK Circuit diagram and Parts list (option)	○	○	○	○	○	○
21	M17 Circuit diagram and Parts list			○	○	○	○
22	05W Circuit diagram and Parts list			○	○	○	○
23	1VP (120V) Circuit diagram and Parts list				○		○
24	2VP (230V) Circuit diagram and Parts list			○		○	
25	SUB_POW (120V) Circuit diagram and Parts list				○		○
26	SUB_POW (230V) Circuit diagram and Parts list			○		○	
27	MEM Circuit diagram and Parts list (option)			○	○	○	○
28	TQSB Circuit diagram and Parts list (option)			○	○	○	○

*: Option

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OKIOFFICE44, OKIFAX 4100/5000 series Drawing No. 1/2

Board Name	Drawing	Drawing No.
R44 (main board) (for OKIOFFICE44/OKIFAX 4100)	Circuit diagram	40004201SS
	Parts list	40004201BT
04W (operation board) (for OKIOFFICE44/OKIFAX 4100)	Circuit diagram	40071401SS
	Parts list	40071401BT
UNC (for US)	Circuit diagram	40002901SS
	Parts list	40002901BT
WN5 (for OEL-INT, OKI-INT)	Circuit diagram	40003001SS
	Parts list	40003001BT
DN5 (for GER)	Circuit diagram	40003101SS
	Parts list	40003101BT
FN5 (for UK, FRANCE)	Circuit diagram	40003201SS
	Parts list	40003201BT
048_POW (main + sub: 120VAC) (for OKIOFFICE44)	Circuit diagram	YB4049-1874P1
	Parts list	4049-1874P1
048_POW (main + sub: 230VAC) (for OKIFAX 4100)	Circuit diagram	YB4049-1875P1
	Parts list	4049-1875P1
TLHV (high-voltage) (for OKIOFFICE44/OKIFAX 4100)	Circuit diagram	3SS5003-6348
	Parts list	4UT5003-6348Z001
CTR (centro): option	Circuit diagram	40016901SS
	Parts list	40016901BT
MEM (memory): option (for OKIOFFICE44/OKIFAX 4100)	Circuit diagram	3SS5005-3517
	Parts list (1 Mbyte)	4UT5005-3517Z002
TELU: option (for US)	Circuit diagram	3SS5003-6262
	Parts list	4UT5003-6262Z001
TEL-W1: option	Circuit diagram	3SS3528-1006
	Parts list	4UT3528-1006Z006
TEL-W2 (AB/ABB): option	Circuit diagram	3SS3528-1007
	Parts list (AB)	4UT3528-1007Z003
	Parts list (ABB)	4UT3528-1007Z004
TEL-W2D: option	Circuit diagram	3SS3528-1016
	Parts list	4UT3528-1016Z005
TEL-W2F: option	Circuit diagram	3SS3528-1035
	Parts list	4UT3528-1035Z007
NTIF: option	Circuit diagram	3SS5003-6261
	Parts list (TEL-UK1)	4UT5003-6261Z001
	Parts list (TEL-G1/II)	4UT5003-6261Z003
TENKEY: option	Circuit diagram	3SS5003-6260
	Parts list	4UT5003-6260Z001
HOOK: option	Circuit diagram	3SS5003-6263
	Parts list	4UT5003-6263Z001

M17 (OKIFAX 5600 for ODA)	Circuit diagram	40014501SS
	Parts list	40014501BT
M17-2 (OKIFAX 5500 for OEL/INT'L)	Circuit diagram	40014501SS
	Parts list	40014502BT
M17-3 (OKIFAX 5300 for ODA)	Circuit diagram	40014501SS
	Parts list	40014503BT
M17-4 (OKIFAX 5200 for OEL/INT'L)	Circuit diagram	40014501SS
	Parts list	40014504BT
05W (operation board) (OKIFAX 5000 series)	Circuit diagram	40079901SS
	Parts list	40079901BT
1VP (main: 120VAC) (OKIFAX 5300/5600)	Circuit diagram	40002701SS
	Parts list	40002701BT
2VP (main: 230VAC) (OKIFAX 5200/5500)	Circuit diagram	40002801SS
	Parts list	40002801BT

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Board Name	Drawing	Drawing No.
SUB-POW (120VAC) (for OKIFAX 5300/5600)	Circuit diagram	YB4049-1876P1
	Parts list	4049-1876P1
SUB-POW (230VAC) (for OKIFAX 5200/5500)	Circuit diagram	YB4049-1878P1
	Parts list	4049-1878P1
MEM (memory): option (for OKIFAX 5000 series)	Circuit diagram	QAS-12175
	Parts list (1Mbyte)	QAS-12175
	Parts list (2Mbyte)	QAS-12175
TQSB (second tray): option (for OKIFAX 5000 series)	Circuit diagram	3SS5005-3362Z001
	Parts list	UT5005-3362Z002

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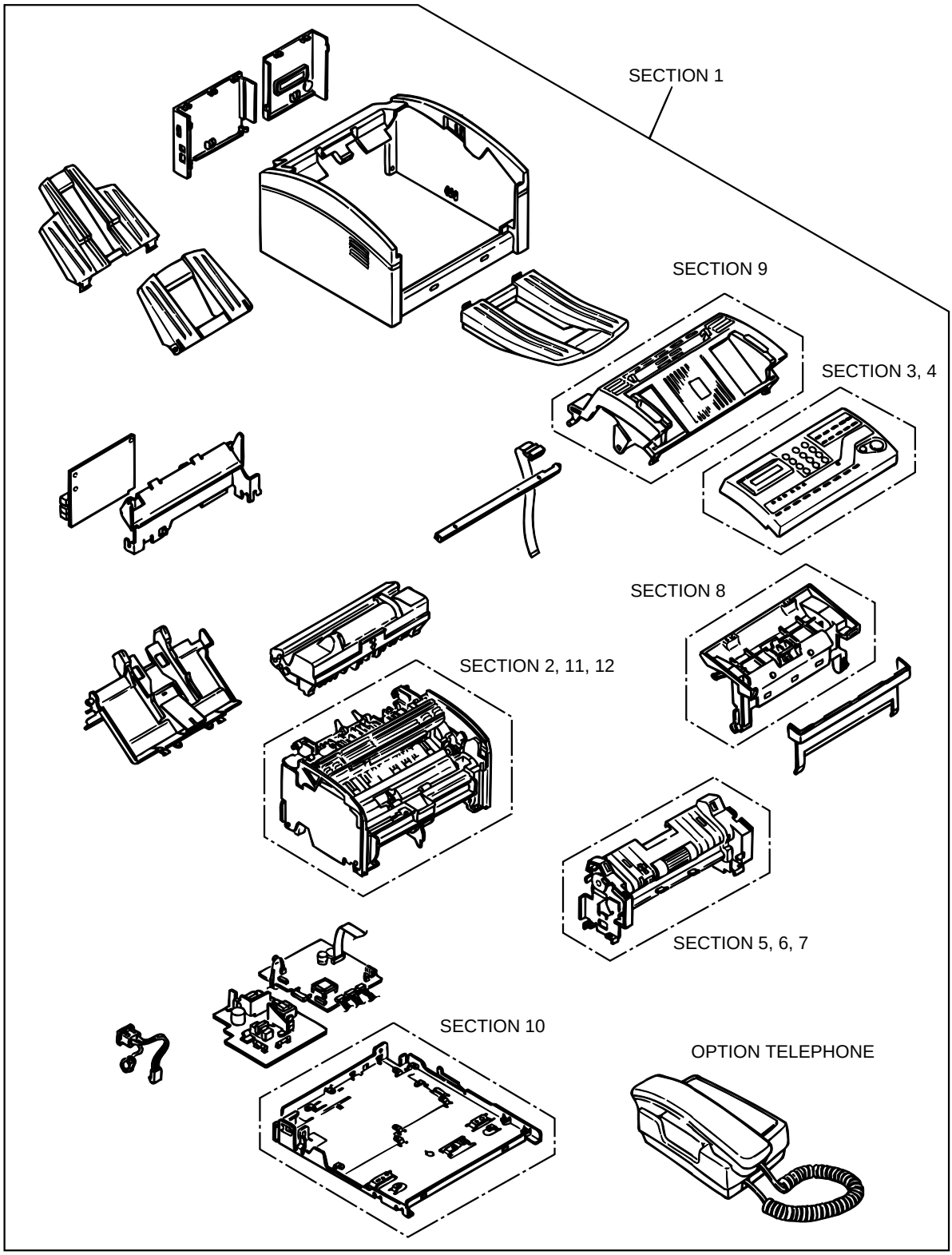
APPENDIX D1 MECHANICAL EXPANDED VIEW DRAWING AND PARTS LIST (OKIOFFICE44/OKIFAX 4100)

OKIOFFICE44/OKIFAX4100 ASSEMBLY



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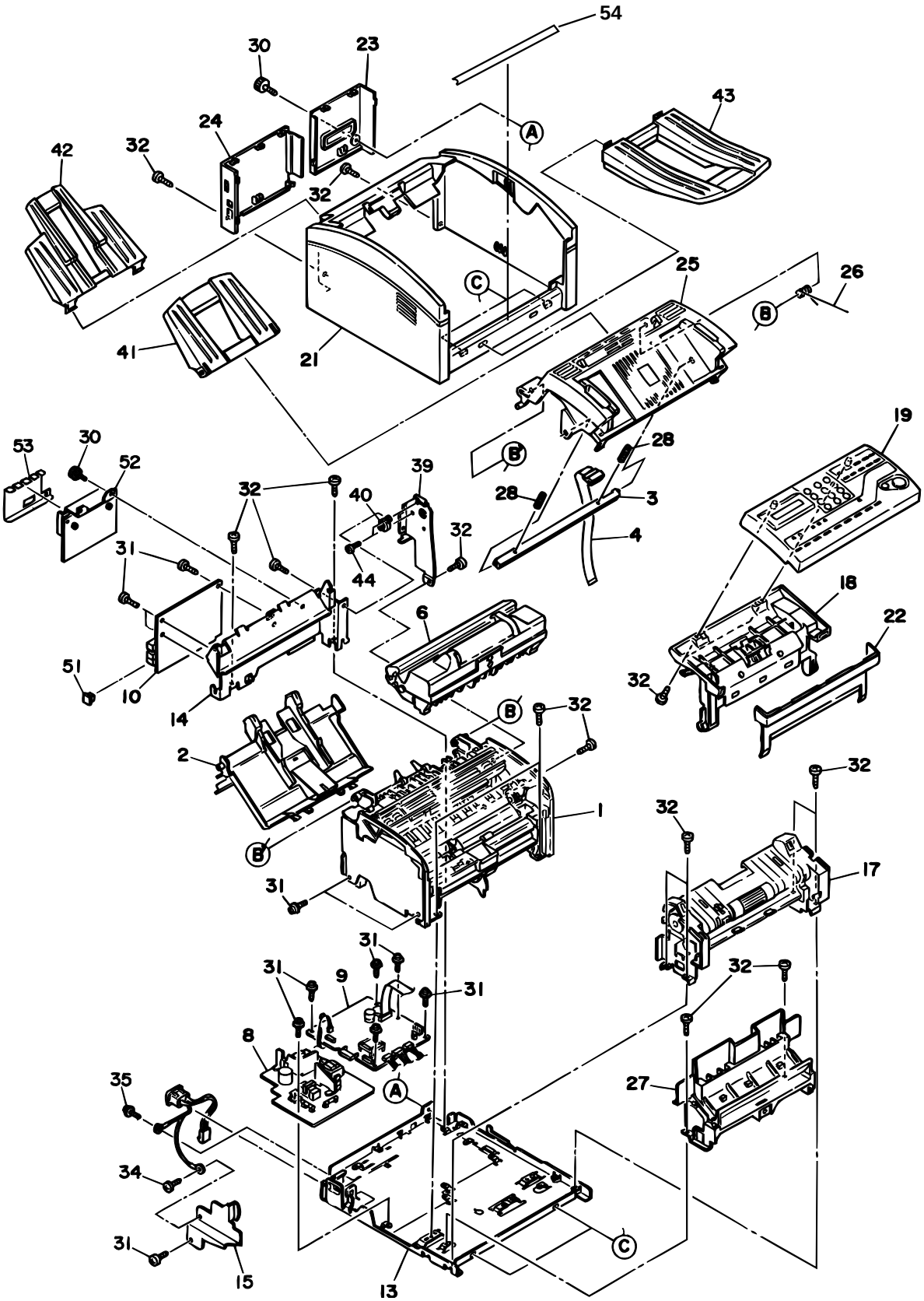
SECTION 1 CABINET ASSEMBLY (FAX NIP-FX048)



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Section 1 CABINET ASSEMBLY (FAX NIP-FX048) 1/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Unit-Printer		Refer to Section 11
	2		HOLDER-ASSY		Refer to Section 11
	3	4YA4116-1228G001	LED HEAD General specification-31B	1	
	4	4YX4083-1134G001	CABLE FLAT ASSY.	1	
	6		EP Unit Specification	1	Consumable
	8a	4YB4049-1874P001	PWR Unit-ACDC Switch (120V)	1	
	8b	4YB4049-1875P001	PWR Unit-ACDC Switch (230V)	1	
	9a	40092201	Board-R44	1	
	9b	40587401	Board-R45	1	VE version
	10a	40044501	Board-UNC	1	US
	10b	40044401	Board-FN5	1	UK, FRANCE
	10c	40044101	Board-DN5	1	GER
	10d	40044303	Board-WN5	1	OEL-INT
	10e	40044307	Board-WN5	1	OKI-INT
	13	40023701	Plate Assy.-Base	1	
	14	40023901	Bracket-Package	1	
	15	40236401	Plate Assy. - Shield (HV)	1	
4	17	41767001	Frame Assy.-Scanner L	1	
	18	40021001	Frame Assy.-Scanner (U)	1	
	19a			1	US
	19b			1	Europe
	19c	40022703	OPE Panel Assy.	1	LANIER
	19d	40022704	OPE Panel Assy.	1	TN
	21a	40025401	Cover-Main	1	
	21b	40025402	Cover-Main	1	TN
	22a	40025301	Cover-Front	1	
	22b	40025302	Cover-Front	1	TN
	23a	40025501	Cover-Rear	1	
	23b	40025502	Cover-Rear	1	TN
	24a	40025601	Cover-NCU	1	
	24b	40025602	Cover-NCU	1	TN
	25a	40022101	Cover Assy.-Top	1	
	25b	40022102	Cover Assy.-Top	1	TN
	26	40026101	Spring-TC	1	

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Section 1 CABINET ASSEMBLY (FAX NIP-FX048) 2/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	27	40024001	Guide-Paper (U)	1	
	28	4PP4083-6168P001	HEAD Spring	2	
	29	40024101	Guide-Paper (L)	1	
	30	4PB4120-1136P001	Knob Screw	1	
	31		B Tapping Screw		
	32		B Tapping Screw FA		
	33		B Screw B		
	34		Screw		
	35		Screw	1	
	39	40140801	Bracket-Damper	1	
	40	40148201	Gear-Damper	1	
	41a	40025701	Tray-Document	1	
	41b	40025702	Tray-Document	1	TN
	42a	40025801	Tray-Paper	1	
	42b	40025802	Tray-Paper	1	TN
	43a	40375801	Stacker Assy.-Document	1	
	43b	40375802	Stacker Assy.-Document	1	TN
	44		Screw-Tapping (S-M2)		
	50	NB3201-1211P001	CARRIER SHEET	1	
	51	223A7010P0003	TM-6-DC1 Connector-Plug	1	GER, TN
	52a	40123402	Plate Assy.-PC I/F	1	For OKIOFFICE44
	52b	40123403	Plate Assy.-PC I/F	1	VE version
	53	4PP4120-1187P001	Plate-Earth (PCFX)	1	For OKIOFFICE44
	54	40332701	Label-Manual Slot	1	For OKIOFFICE44

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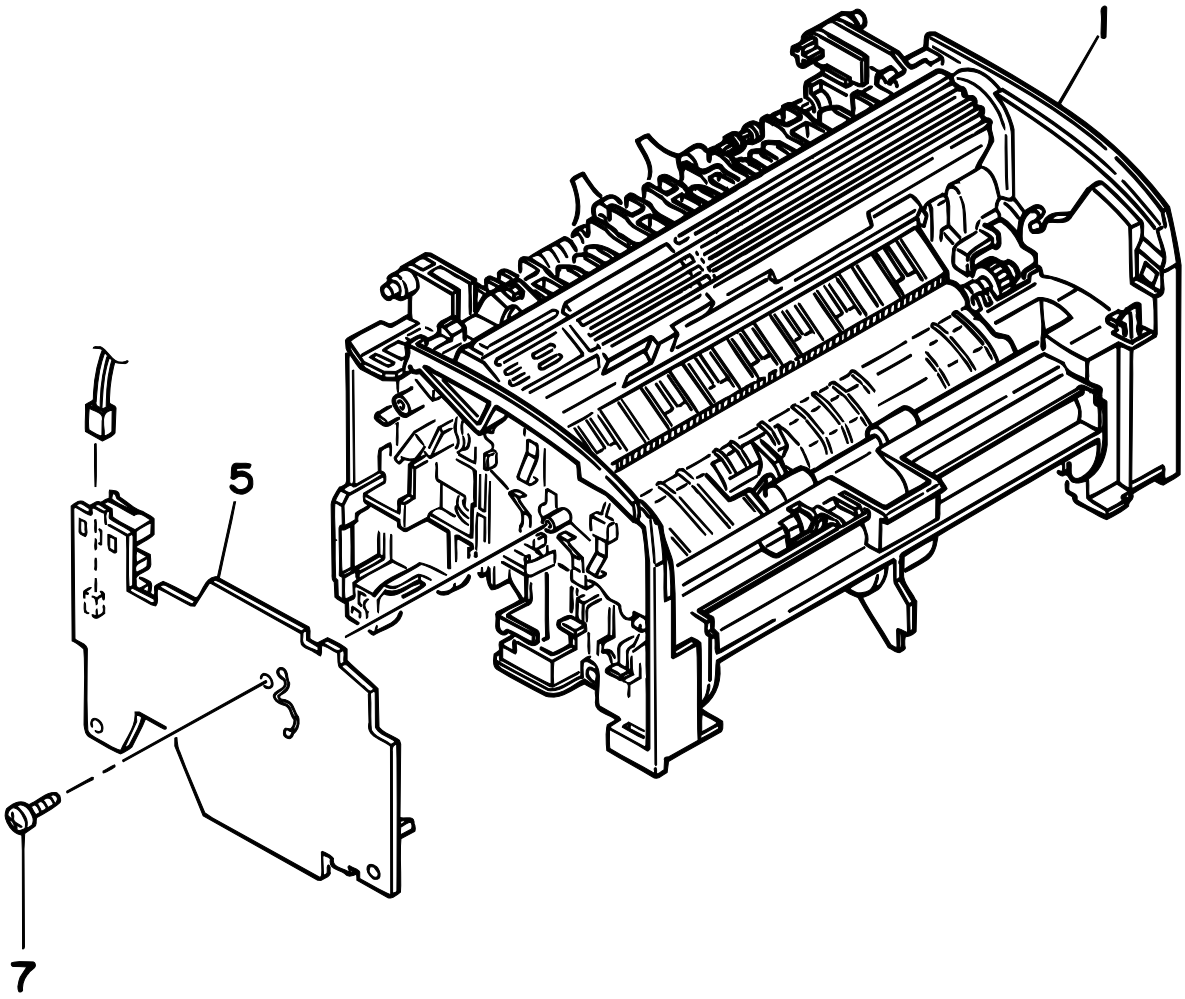

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Section 2 UNIT-PRINTER

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Printer Unit Assembly		See Section 11
	5	4YA4130-1024G001	PCB Assembly HV	1	
	7		Screw F		

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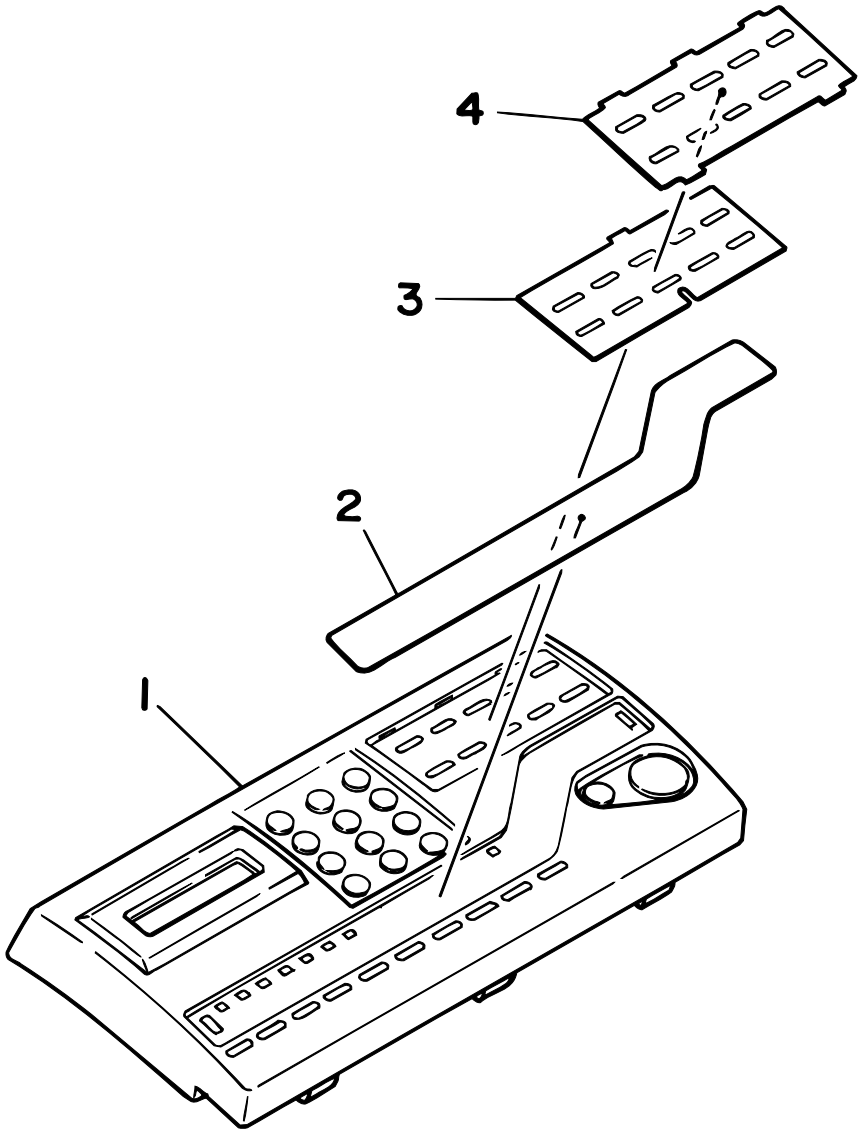

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Section 3 UNIT-048 OPE PANEL

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1a	40022701	OP Panel Assy.	1	ODA/OKI-INT
4	~~1b~~	~~40022702~~	~~OP Panel Assy.~~	~~1~~	~~OEL~~
	1c	40022703	OP Panel Assy.	1	LANIER
	1d	40022704	OP Panel Assy.	1	TN
	2a	40023401	Sheet-F-048	1	OEL-INT/OKI-INT
	2b	40023402	Sheet-F-048	1	UK/FRANCE
	2c	40023403	Sheet-F-048	1	GERMANY
	2d	40023404	Sheet-F-048	1	ITALY
	2e	40023405	Sheet-F-048	1	NORWAY
	2f	40023406	Sheet-F-048	1	DENMARK
	2g	40023407	Sheet-F-048	1	SWEDEN
	2h	40023408	Sheet-F-048	1	HOLAND
	2i	40023409	Sheet-F-048	1	SPAIN
	2j	40023410	Sheet-F-048	1	ODA (US/CANADA)
	2k	40023413	Sheet-F-048	1	LANIER FTZ
	2l	40023414	Sheet-F-048	1	TN
	2m	40023430	Sheet-F-048	1	CHN
	2n	40023431	Sheet-F-048	1	S/R
	3a	40023501	Sheet-O-048	1	ODA/OEL-INT/OKI-INT
	3b	40023502	Sheet-O-048	1	UK/FRANCE
	3c	40023503	Sheet-O-048	1	GERMANY, FTZ
	3d	40023504	Sheet-O-048	1	ITALY
	3e	40023505	Sheet-O-048	1	NORWAY
	3f	40023506	Sheet-O-048	1	DENMARK
	3g	40023507	Sheet-O-048	1	SWEDEN
	3h	40023508	Sheet-O-048	1	HOLAND
	3i	40023509	Sheet-O-048	1	SPAIN
	3j	40023510	Sheet-O-048	1	TN
	3k	40023520	Sheet-O-048	1	CHN
	3l	40023521	Sheet-O-048	1	S/R
	4	40023601	Sheet-Cover	1	

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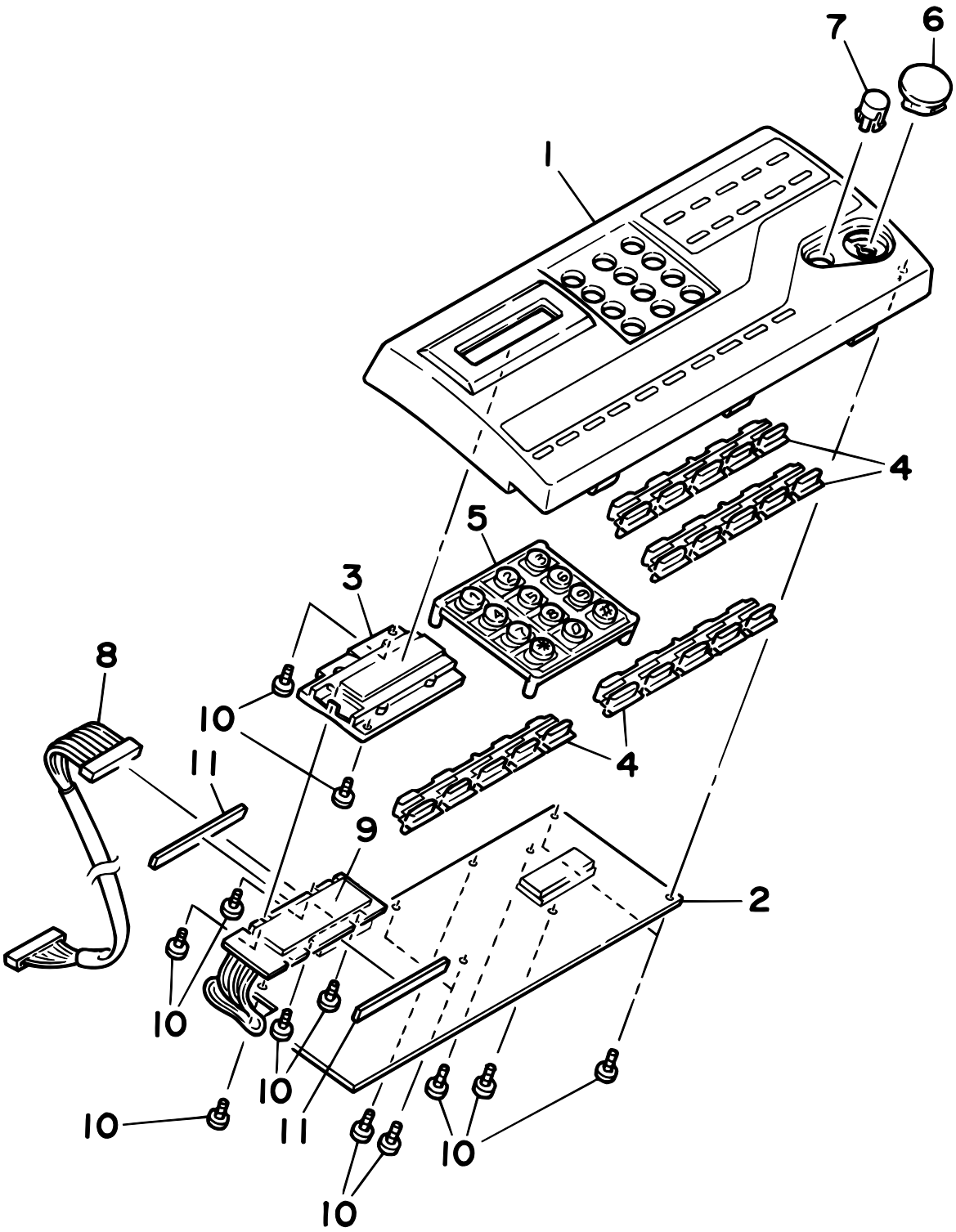
SECTION 4 OPEPANEL (OPERATION PANEL) ASSEMBLY



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Section 4 OPE PANEL ASSEMBLY

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Case-OPE(T)		
	2	40086701	Board-04W	1	
	3		Holder-LCD		
	4		Button-Function		
	5		Ten Key (Round)		
	6a	40023201	Button-Start	1	OKI, TN
	6b	40023202	Button-Start	1	LANIER
	7a	40023301	Button-Stop	1	OKI, TN
	7b	40023302	Button-Stop	1	LANIER
	9	4YB4134-1009P001	LCD	1	
	10		B SCREW A		
	11	4PB4120-1113P001	Rubber Connector	2	

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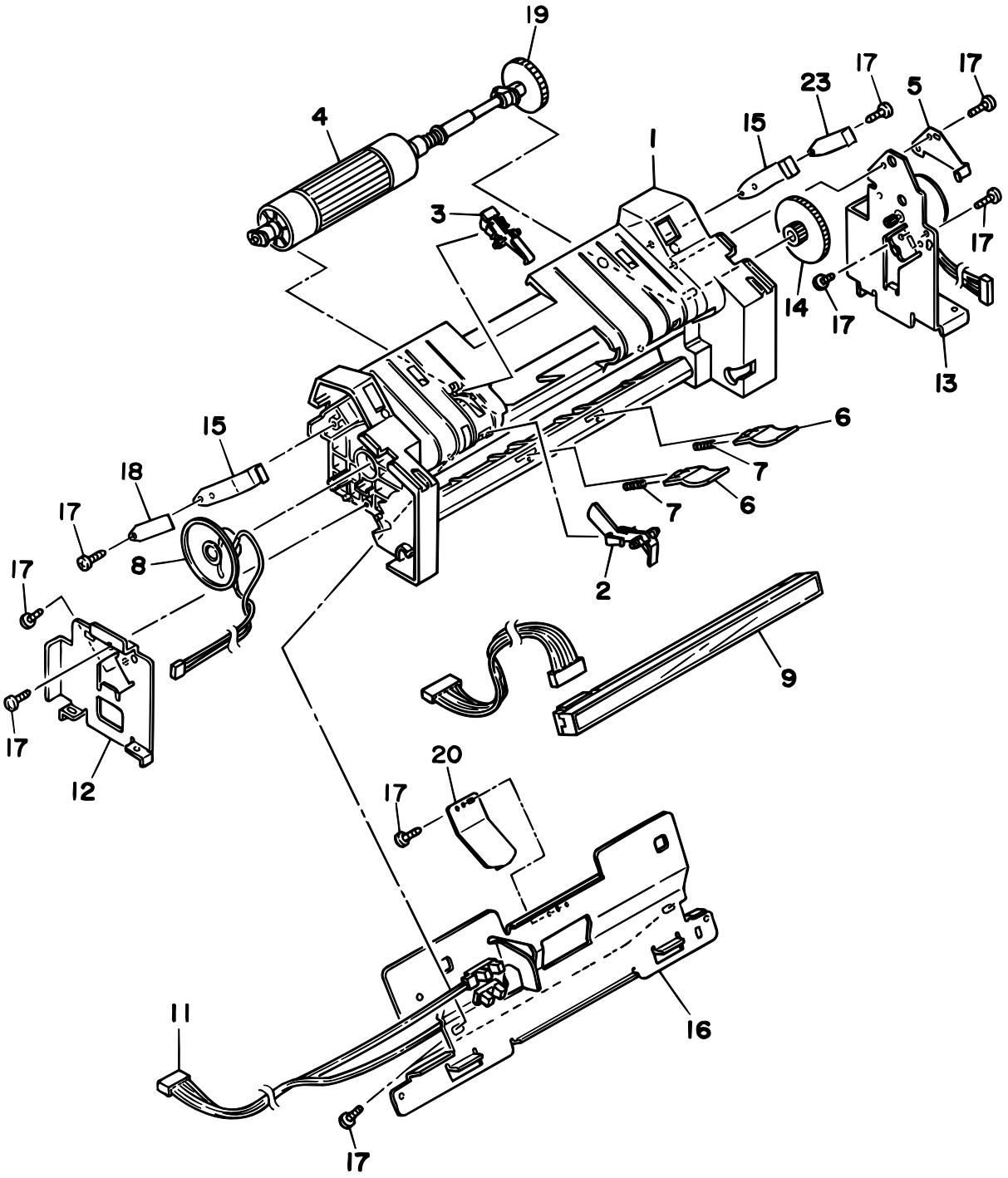
SECTION 5 FRAME ASSEMBLY-SCANNER (L)



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Section 5 FRAME ASSEMBLY-SCANNER L

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Frame-Scanner (L)		
	2	40019401	Lever-PC1	1	
	3	40019501	Lever-PC2	1	
	4	40019601	Roller Assy.-ADF	1	
	5	40020201	Plate-Earth ADF	1	
	6	40020601	Piece-Exit	2	
	7	40020701	Spring-Exit	2	
	8	40127501	CONN Cord-Speaker	1	
	9	4YB4120-1121P001	CONTACT IMAGE SENSOR-A4	1	
	12		Plate-Scanner (L)		
	13		Plate Assy.-Scanner (R)		
	14	40020301	Gear-Z95/14	1	
	15	40020501	Spring-Latch	2	
	16		Plate Assy.-Scanner (B)		
	17		B Screw FA		
4	18	40153801	Spring-Reinforcement	1	
	19	40025201	Gear-Z38	1	
	20	40024501	Spring-CIS	1	
4	23	40899901	Spring-Reinforcement_Add_Work	1	

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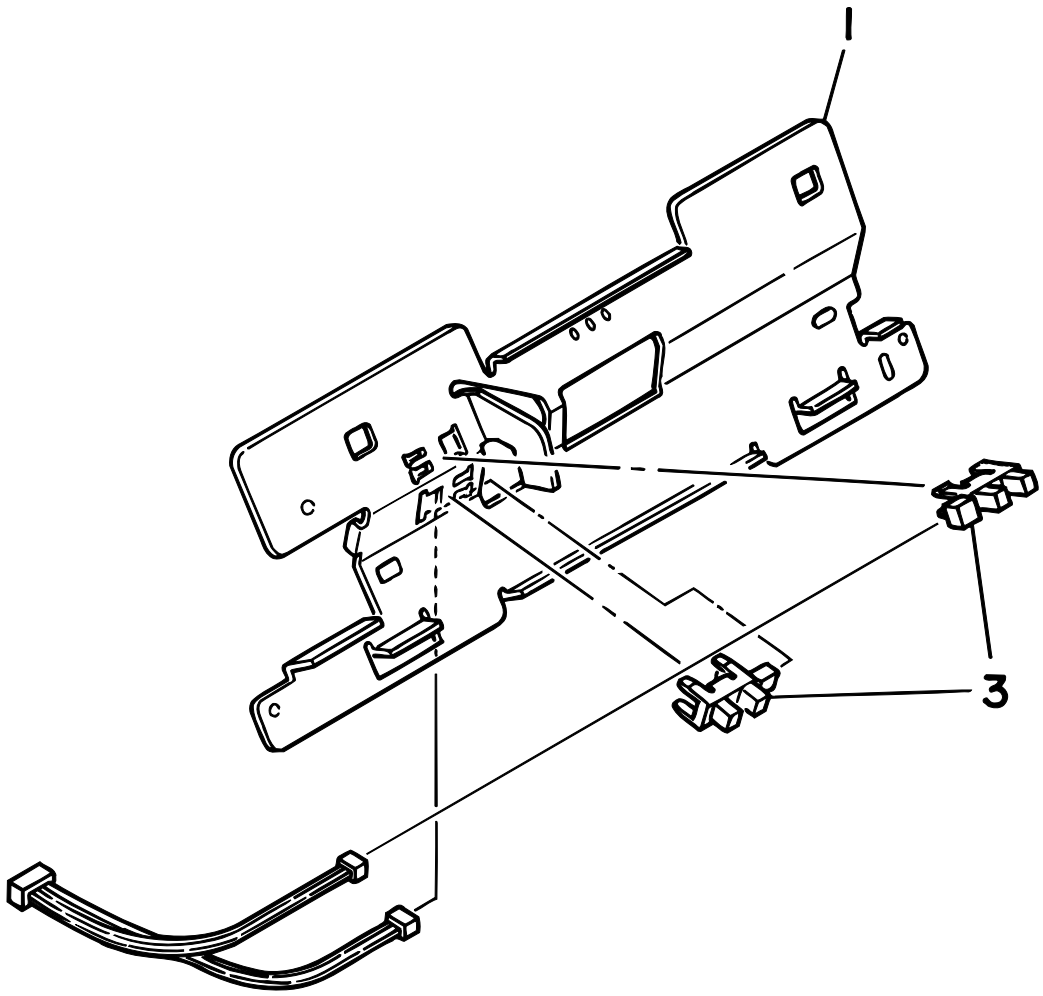
SECTION 6 PLATE ASSEMBLY-SCANNER (B)



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Section 6 PLATE ASSEMBLY-SCANNER (B)

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Plate-Scanner (B)		
4	3	40135301	Photo-Interrupter	2	

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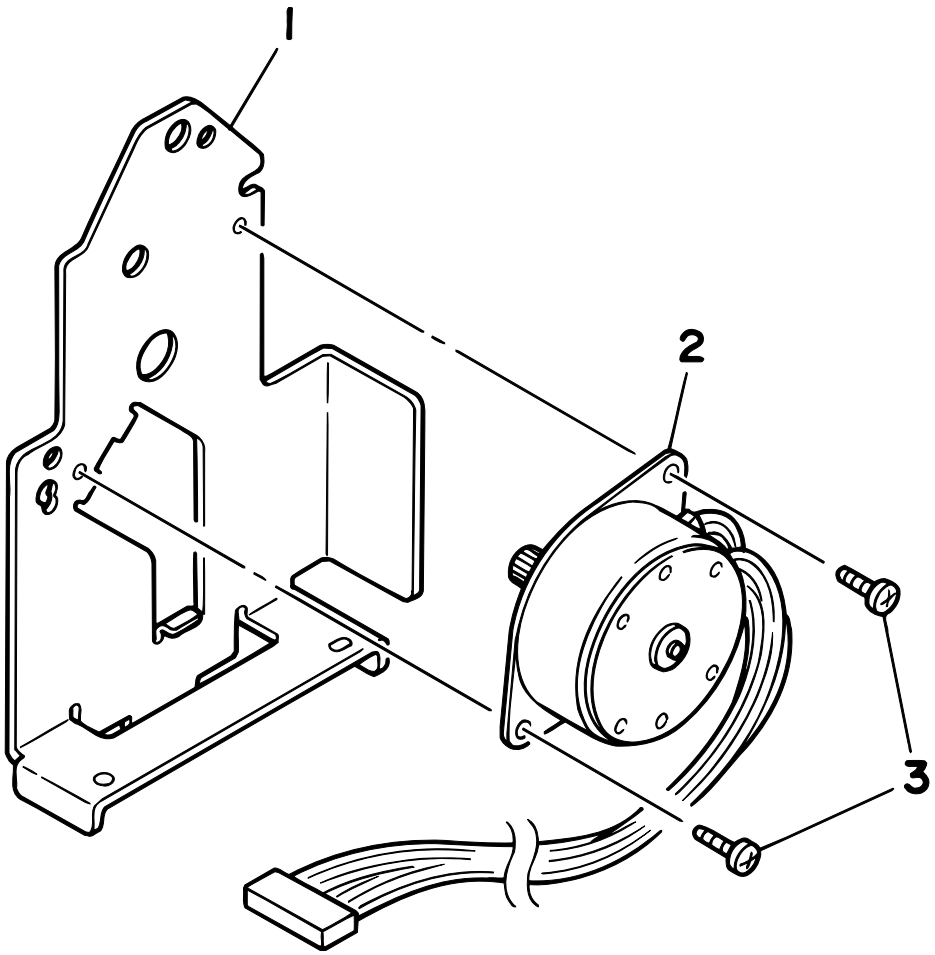
SECTION 7 PLATE ASSEMBLY-SCANNER (R)



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Section 7 PLATE ASSEMBLY-SCANNER (R)

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Plate-Scanner (R)		
	2	40084301	Motor-S (FX-048)	1	
	3		B SCREW FA		

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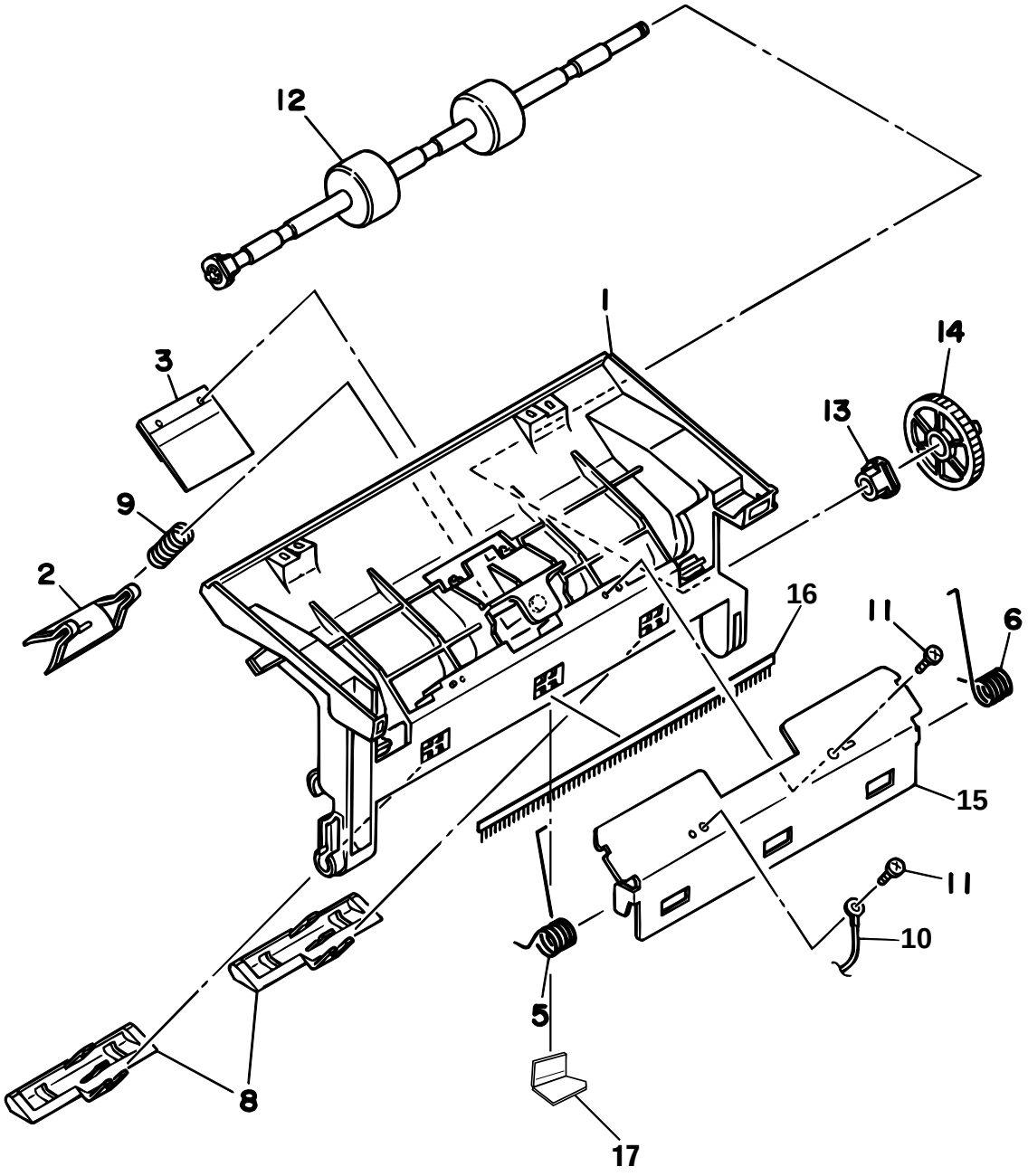
SECTION 8 FRAME ASSEMBLY-SCANNER (U)



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Section 8 FRAME ASSEMBLY-SCANNER (U)

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Frame-Scanner (U)		
	2	4PP3527-5153P001	BACK-UP PLATE	1	
	3	40267001	SEPARATION RUBBER ASSEMBLY	1	
	5	40021401	Spring-Pinch (L)	1	
	6	40021501	Spring-Pinch (R)	1	
	8	40021701	Guide-Sensor (B)	2	
	9	40481101	ADF SPRING	1	
	10		Cord-Earth		
	11		B SCREW FA		
	12	40021201	Roller Assy.-Sensor	1	
	13	40022001	Bearing-S	1	
	14	40020801	Gear-Z31	1	
	15	40021301	Plate-Support	1	
	16	40026301	Bar-Discharge	1	
	17	40461301	Film-Exit (DOC)	1	

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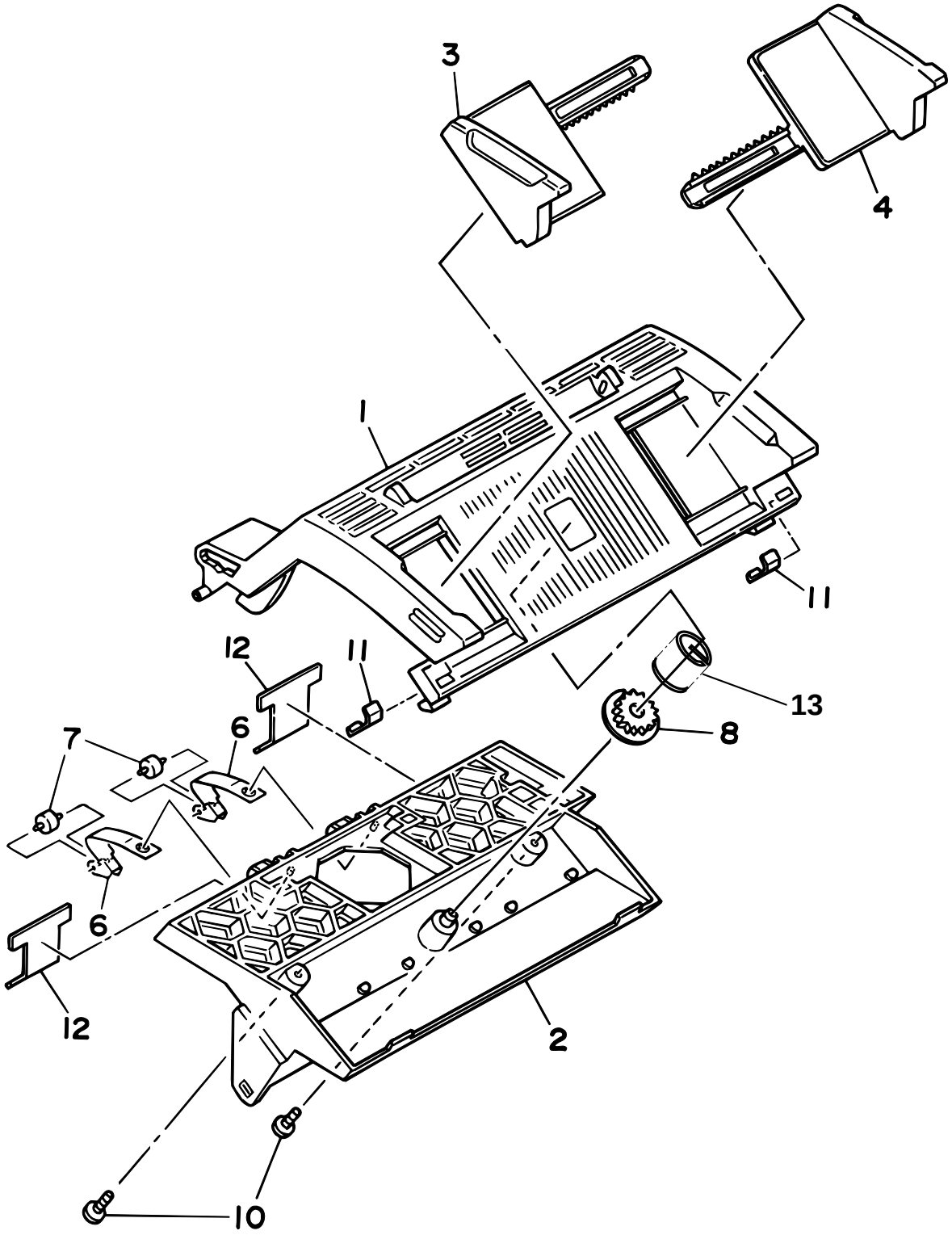
SECTION 9 COVER ASSEMBLY-TOP



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Section 9 COVER ASSEMBLY-TOP

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Cover-Top		
	2	40022301	Holder-LED	1	
	3		Guide-Document (L)		
	4		Guide-Document (R)		
	6	4PP4128-1268P001	PLATE EXIT	2	
	7	4PP4083-2024P001	EJECT ROLLER A	2	
	8	4PP4083-2328P003	PINION GEAR B	1	
	10		B SCREW FA		
	11	40093201	Spring-Support	2	
	12	40175801	Film-Exit (A)	2	
	13	40022601	Spring-D	1	

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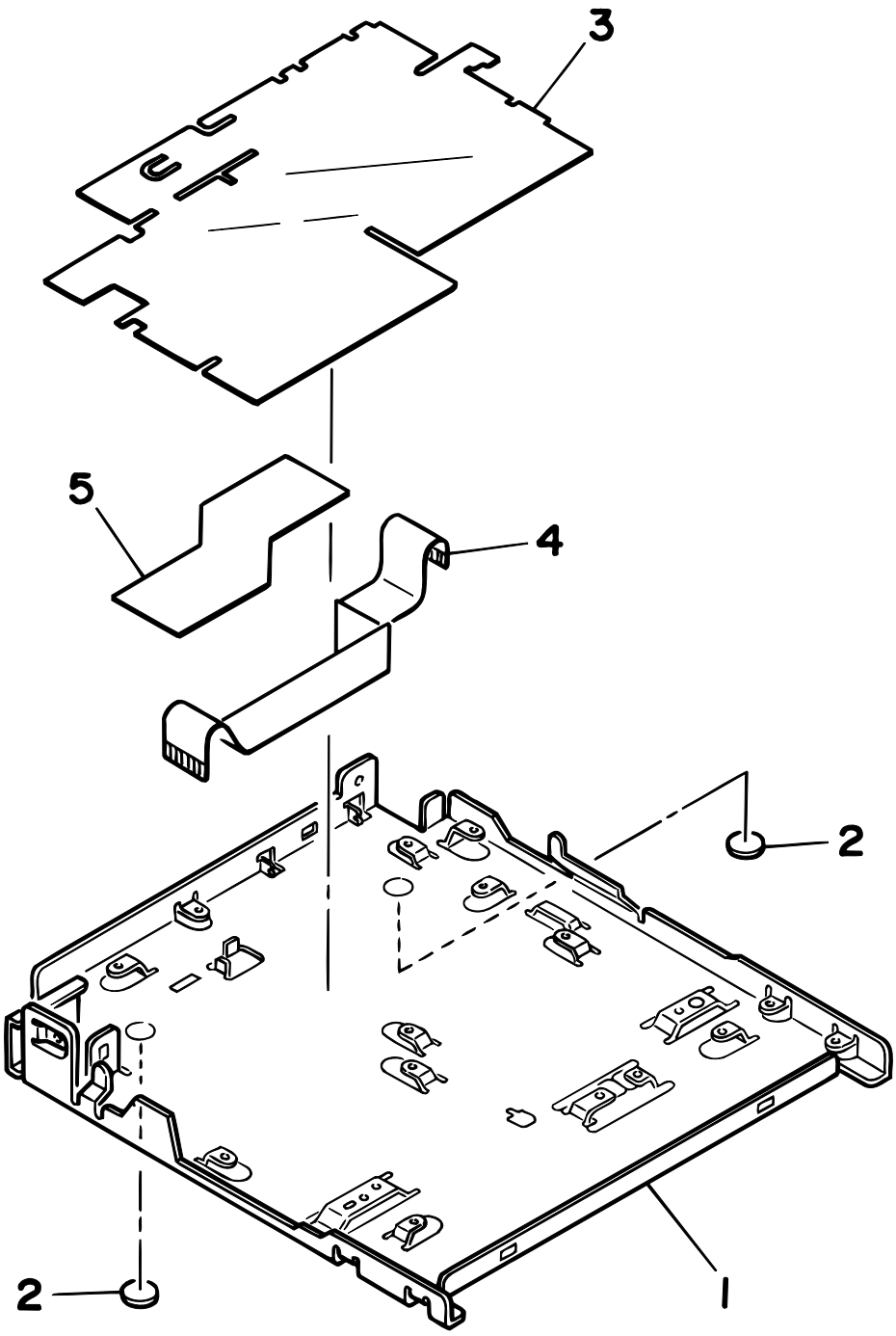
SECTION 10 PLATE ASSEMBLY-BASE



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Section 10 PLATE ASSEMBLY-BASE

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1		Plate-Base		
	2		RUBBER A		
	3	40026001	Sheet-Insulation	1	
	4	40128001	Cord-Falt (FUJI CARD)	1	
	5		Sheet-FG		

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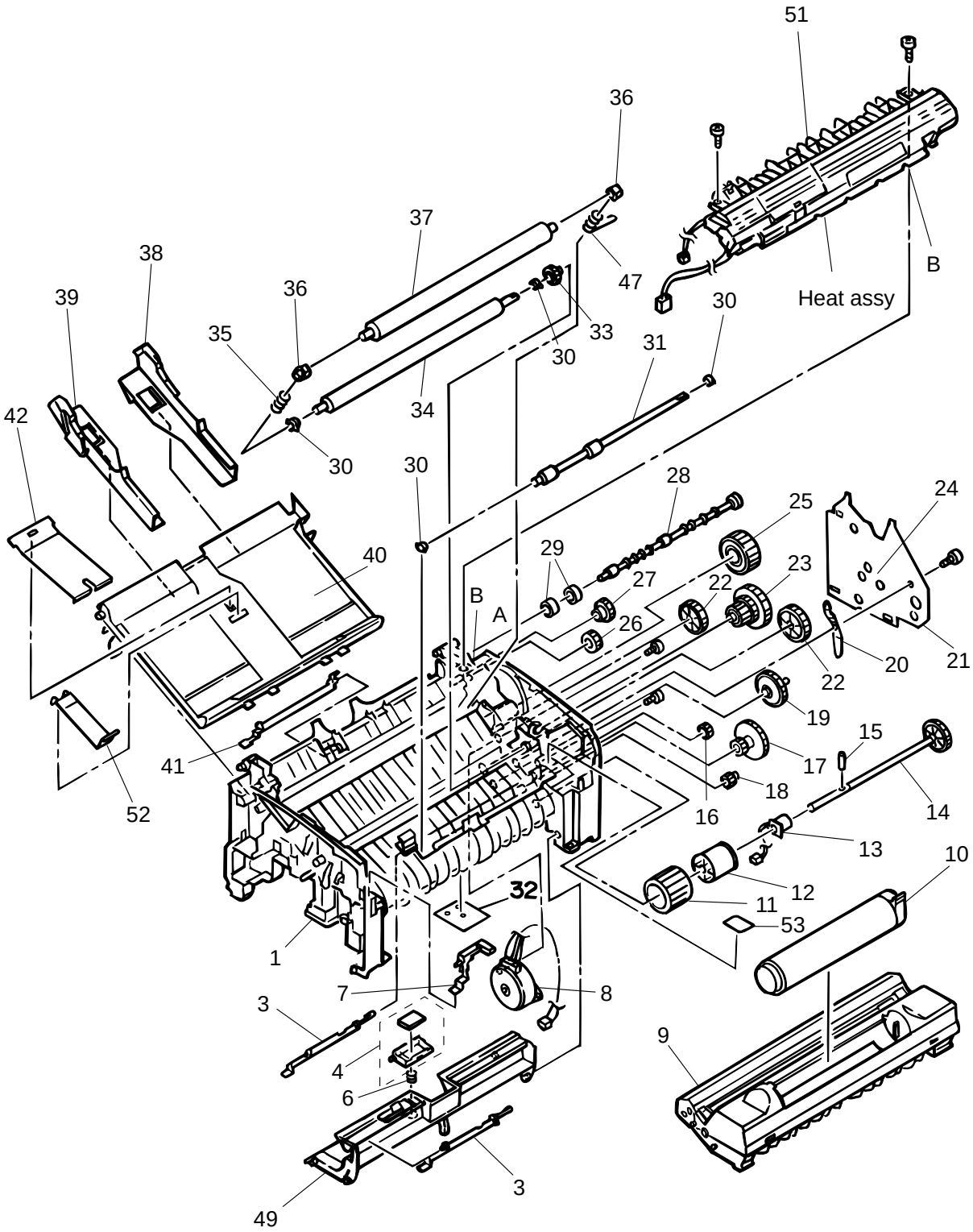
SECTION 11 PRINTER BASE FRAME UNIT



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Section 11 PRINTER BASE FRAME UNIT 1/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	2PP4083-1502G001	Base Frame Assy.	1	
	3	3PP4083-1191P001	Paper Sensor E	2	
4	4	40721301	Separator Assy.	1	
4					
	6	4PP4083-1246P001	Compression Spring S	1	
	7	3PA4083-1193G001	Toner Sensor Assy.	1	
	8	4PB4083-1172P001	Pulse Motor (Main)	1	
	9a	4YA4083-1600G002	Ep Unit	1	For ODA
	9b	4YA4083-1600G003	Ep Unit	1	For OEL/OKI-INT
	10a	40035001	Toner Cartridge Unit	1	For ODA
	10b	4YA4083-1450G003	Toner Cartridge Unit	1	For OEL/OKI-INT
	11	4PB4083-1129P001	Hopping Roller	1	
	12	3PP4083-1128P001	Roller Holder (Hopping Roller)	1	
	13	3PB4083-1127P001	Magnet H (Hopping Shaft)	1	
	14	3PA4083-1133G001	Hopping Shaft Assy.	1	
	15	NK2-10-SUS	Knock Pin	1	
	16	4PP4083-1143P001	Idle Gear R	1	
	17	3PP4083-1184P001	Idle Gear 2R	1	
	18	3PP4083-1142P001	Gear R	1	
	19	2PP4083-1181P001	Idle Gear M	1	
	20	3PP4083-1189P001	Earth Plate A	1	
	21	3PP4083-1188P001	Slide Plate M	1	
	22	3PP4083-1182P001	Idle Gear P	2	
	23	3PP4083-1183P001	Idle Gear 3R	1	
	24	4PP4083-1165P001	Tension Plate	1	
	25	3PP4083-1185P001	Idle Gear Heat	1	
	26	4PP4083-1186P001	Idle Gear E (A)	1	
	27	3PP4083-1187P001	Idle Gear E (B)	1	
	28	3PP4083-1170P001	Drive Shaft E (Eject)	1	
	29	40074601	Eject Roller	2	
	30	3PP4083-1141P001	Resistration Bearing	4	

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Section 11 PRINTER BASE FRAME UNIT 2/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	31a	3PB4083-1140P001	Resistration Roller	1	
	31b	40457001	Resistration Roller	1	For CHN
4	32	41802101	Film-Guide_F	1	
	33	3PP4083-1151P001	Gear T	1	
	34a	3YB4083-1150P002	Transfer Roller	1	
	34b	40456901	Transfer Roller	1	For CHN
	35	4PP4083-1136P001	Bias Spring (L) (Back UP Roller)	1	
	36	3PP4083-1161P001	Bearing BU (Back Up Roller)	2	
	37	3PB4083-1160P002	Pressure Roller B (Back Up Roller)	1	
	38	3PP4083-1233P001	Paper Guide (R)	1	
	39	3PP4083-1232P001	Paper Guide (L)	1	
	40	1PP4083-1231P001	Paper Holder	1	
	41	3PP4083-1192P001	Paper Sensor Exit	1	
4	42	41802001	Spring-Hopper_F	1	
	47	4PP4083-1137P001	Bias Spring (R) (Back Up Roller)	1	
	49	1PP4083-1241P001	Sheet Guide	1	
	51a	1YX4083-1200G001	Heat Assy.	1	120V
	51b	1YX4083-1200G002	Heat Assy.	1	230V
	52	40034001	Stopper Spring	1	
	53	4PB4091-6047P001	Caution Label (TR)	1	230V

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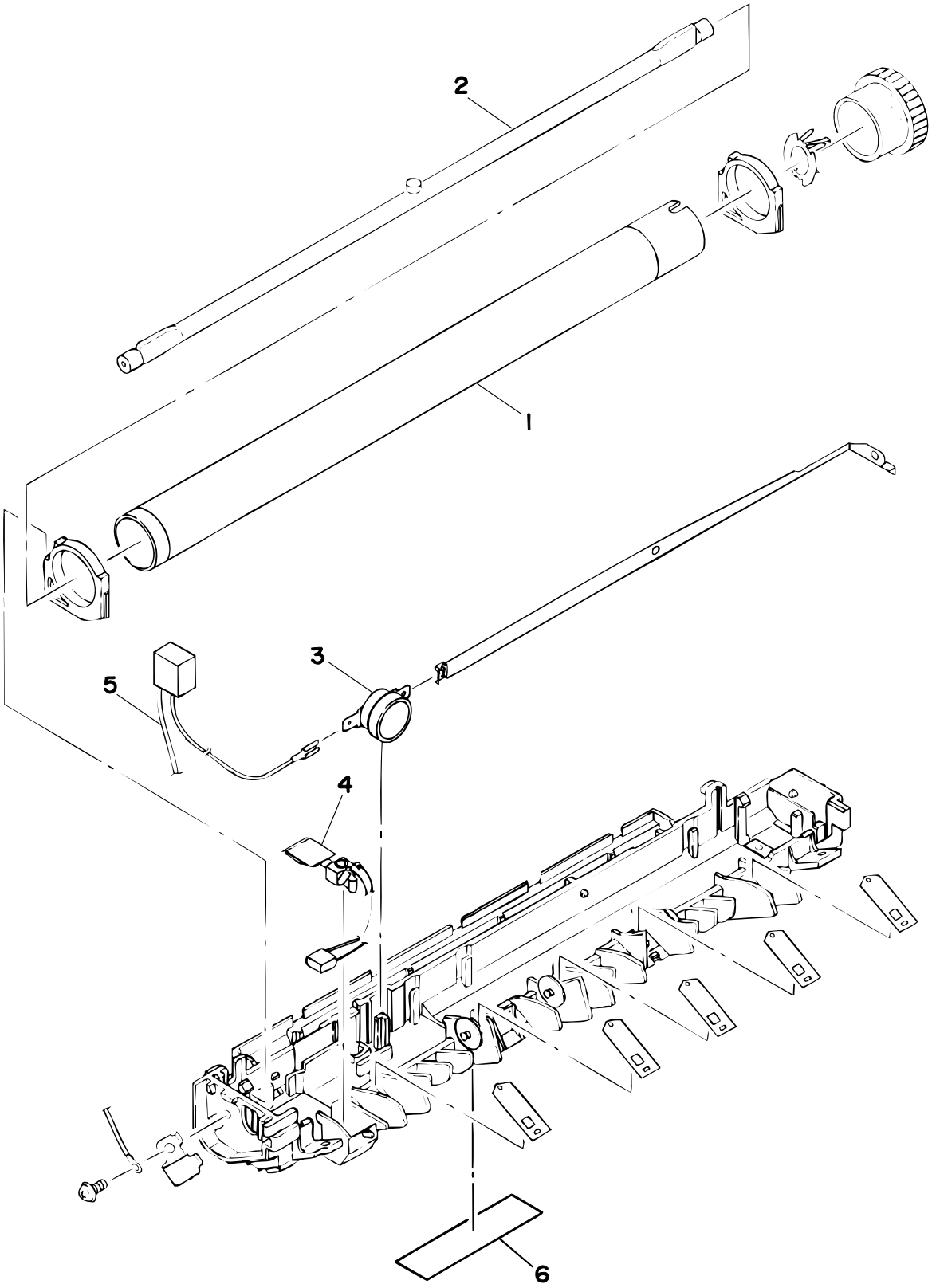
SECTION 12 PRINTER HEAT ASSY



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Section 12 PRINTER HEAT ASSY.

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	3PB4083-1202P001	Heat Roller	1	
	2a	3PB4083-6103P004	Halogen Lamp	1	120V
	2b	3PB4083-6103P005	Halogen Lamp	1	230V
	3	4PB4083-1204P001	Thermostat	1	
4	4	3PB4083-1205P001	Thermistor	1	
	5	4PB4083-1213P001	Heat Cord	1	
4	6a	4PB4012-3213P001	Caution Label J	1	CHN
4	6b	40274101	Label-Caution Korea	1	SR

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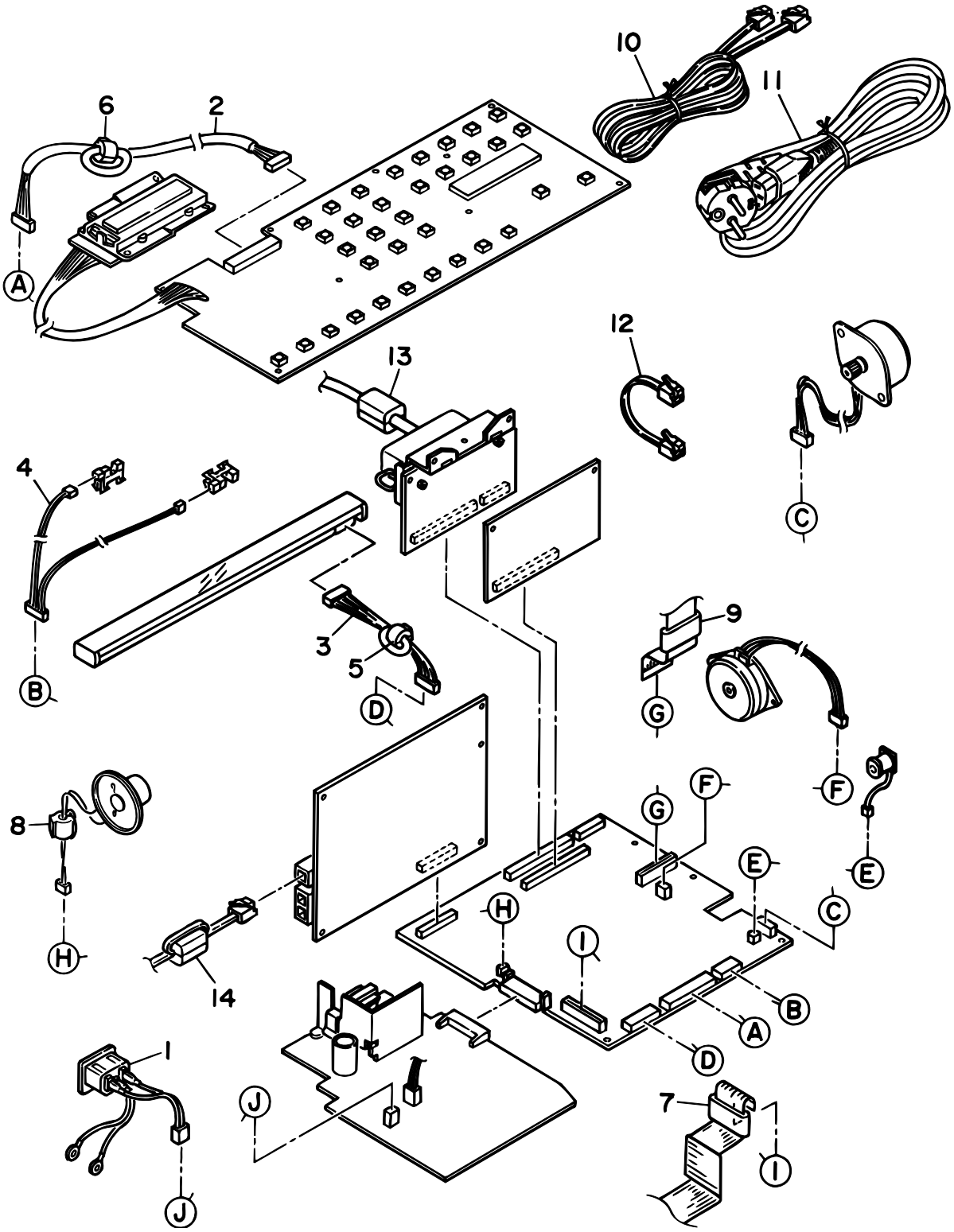
SECTION 13 CABLES



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Section 13 CABLES

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	40048101	Connection Cord-Wire (AC)	1	
	2	40040001	Connection Cord-Wire (OPE)	1	
	3	40040201	Connection Cord-Wire (CIS)	1	
	4	40040301	Connection Cord-Wire (PC1/2)	1	
	5	105A1070C0003	TFC-20-10-10 Core	1	
	6	105A1070C0004	TFC-23-11-14 Core	1	
	7	105A1073C4002	SSC-40-12-M Core	1	
	8	1051070C0001	TFC-16813 Core	1	
	9	105A1067C1001	FPC-25-12 Core	1	
	10a	236A3161P0002	TEL/LINE Cable	1	
	10b	4YB3522-1297G001	TEL/LINE Cord	1	GER TN
	11a	3YS4011-1329P002	AC CORD A	1	OKI-INT
	11b	4YS3512-1485P001	AC CORD	1	ODA *Note 1
	11c	236A6058P0001	AC CORD	1	OEL
	11d	40483802	AC CORD A	1	CHN
	12	4YS4111-5581P001	CORD (TEL1-TEL 2)	1	GER, TN
	13	105A1062C0002	0443-167251 Core	1	For PC I/F use
	14	105A1068C1004	SFC-8 Core	1	For TEL/LINE Cord use

Note 1: Parts will be supplied by ODA.

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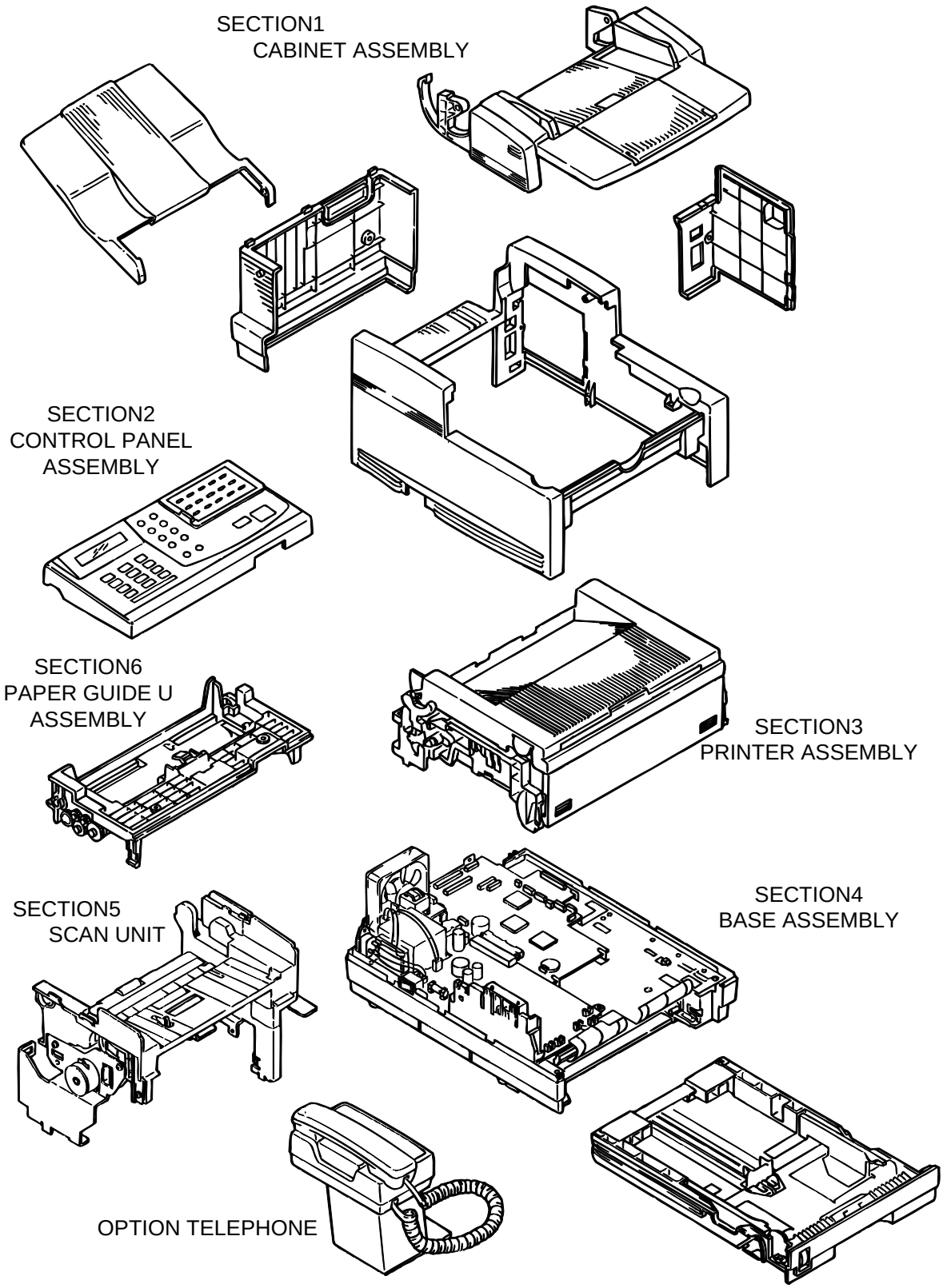
APPENDIX D2 MECHANICAL EXPANDED VIEW DRAWING AND PARTS LIST (OKIFAX 5200/5300/5500/5600)

ASSEMBLY



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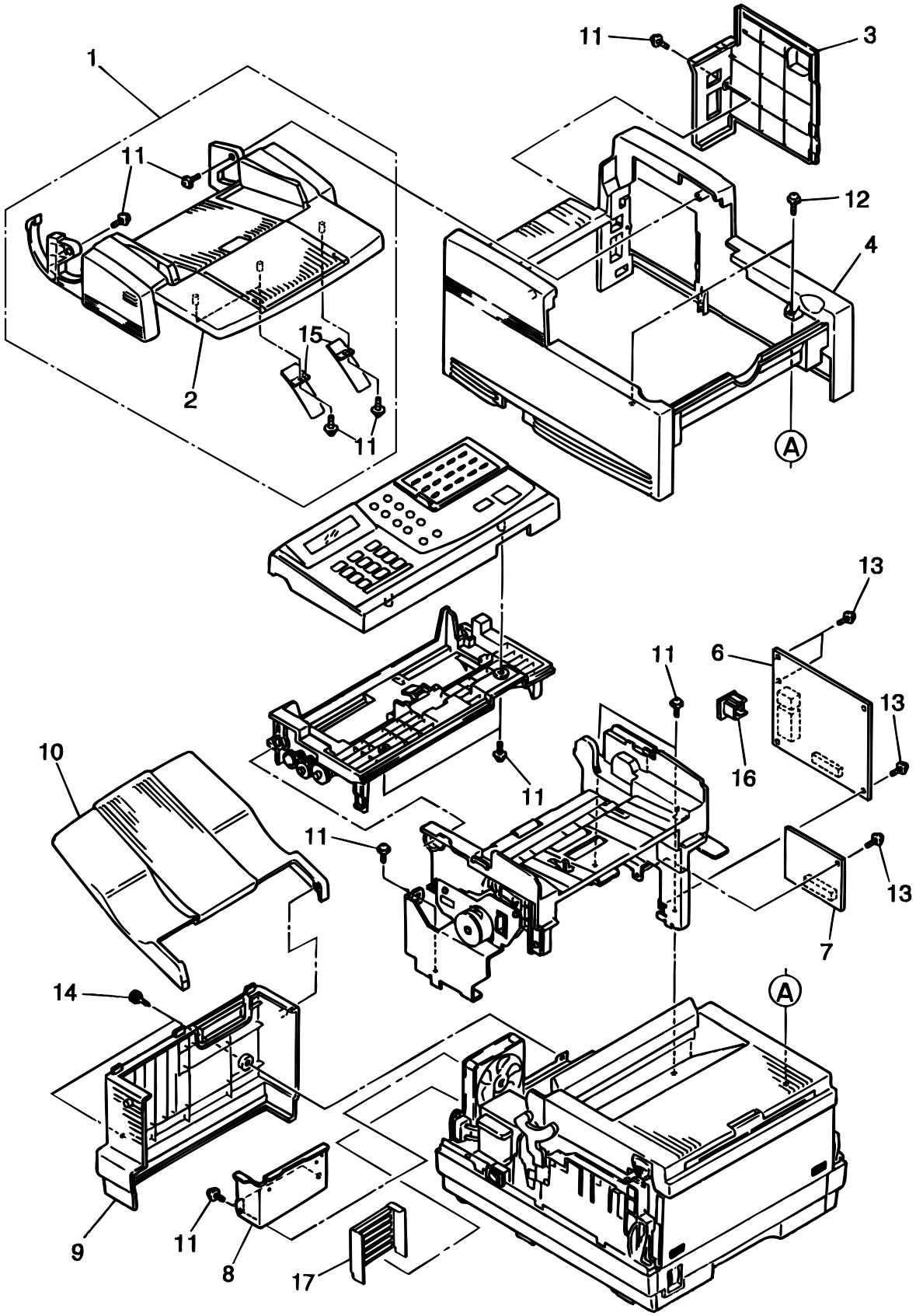
SECTION 1 CABINET ASSEMBLY



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Section 1 CABINET ASSEMBLY

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1a	1PA4120-1079G001	Document Hopper Assy.	1	OKI
	1b	1PA4120-1079G004	Document Hopper Assy.	1	TN
	2a	2PP4120-1084P001	Sub-Hopper	1	OKI
	2b	2PP4120-1084P004	Sub-Hopper	1	TN
	3a	2PP4120-1091P001	NCU Cover	1	OKI
	3b	2PP4120-1091P004	NCU Cover	1	TN
	4a	1PP4120-1089P001	Main Cover	1	OKI
	4b	1PP4120-1089P004	Main Cover	1	TN
	5a	2PA4083-6130G001	Manual Feed Guide Assembly	1	OKI
	5b	40051902	Guide Assy,-Manual Feed	1	TN
	6a	40044501	Board-UNC	1	US (050VP)
	6b	40044401	Board-FN5	1	UK, France
	6c	40044101	Board-DN5	1	GER/TN
4	6d	40044303	Board-WN5	1	CHN
	6e	40044307	Board-WN5	1	OEL/AUS/ENC
	6f	40044502	Board-UNC	1	US (FX-175VP)
4	6g	40044305	Board-WN5	1	OKI-INT
	7a	40274601	Board-S34	1	for OKIFAX 5600/5500
	7b	40274602	Board-S34	1	Only for 5500/5600VE machine. (Only for Board-E17)
	8	3PP4120-1088P001	Partition Plate	1	
	9a	1PP4120-1090P001	Rear Cover	1	
	9b	1PP4120-1090P004	Rear Cover	1	TN
	9c	40545301	Rear Cover	1	For 5300ENC
	10	1PP4120-1093P001	Stacker	1	
	11		Screw		
	12		Screw		
	13		Screw		
	14	4PB4120-1136P001	Knob Screw	2	
	15	4PP4120-1161G001	Assist Guide	3	
	16	223A7010P0003	Dust Cover	1	Note 1
	17	40275501	Plate-guard	1	

Note 1: Required number of this part is arrenged by each country.

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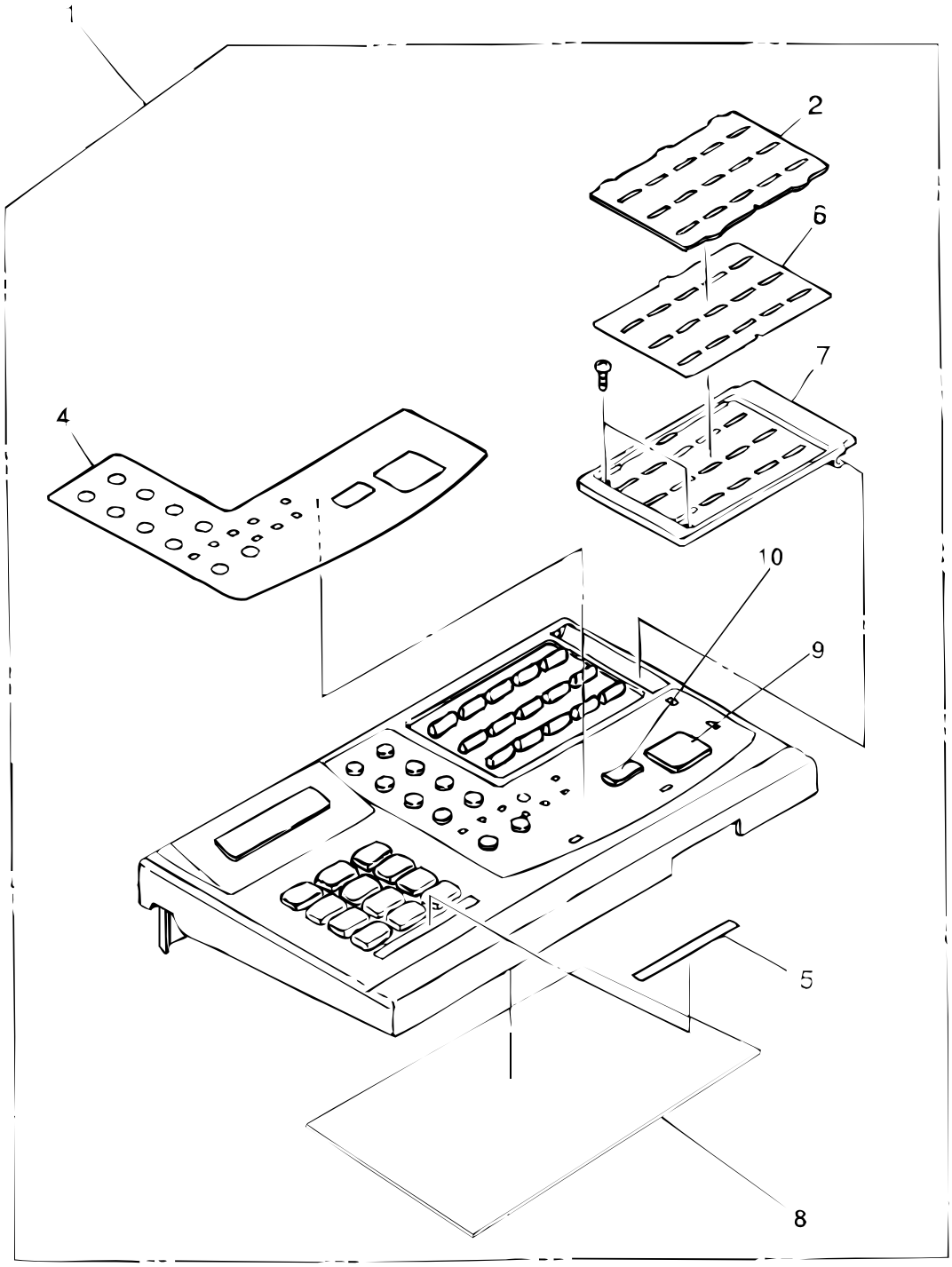
SECTION 2 CONTROL PANEL ASSEMBLY (OKIFAX 5200/5300)



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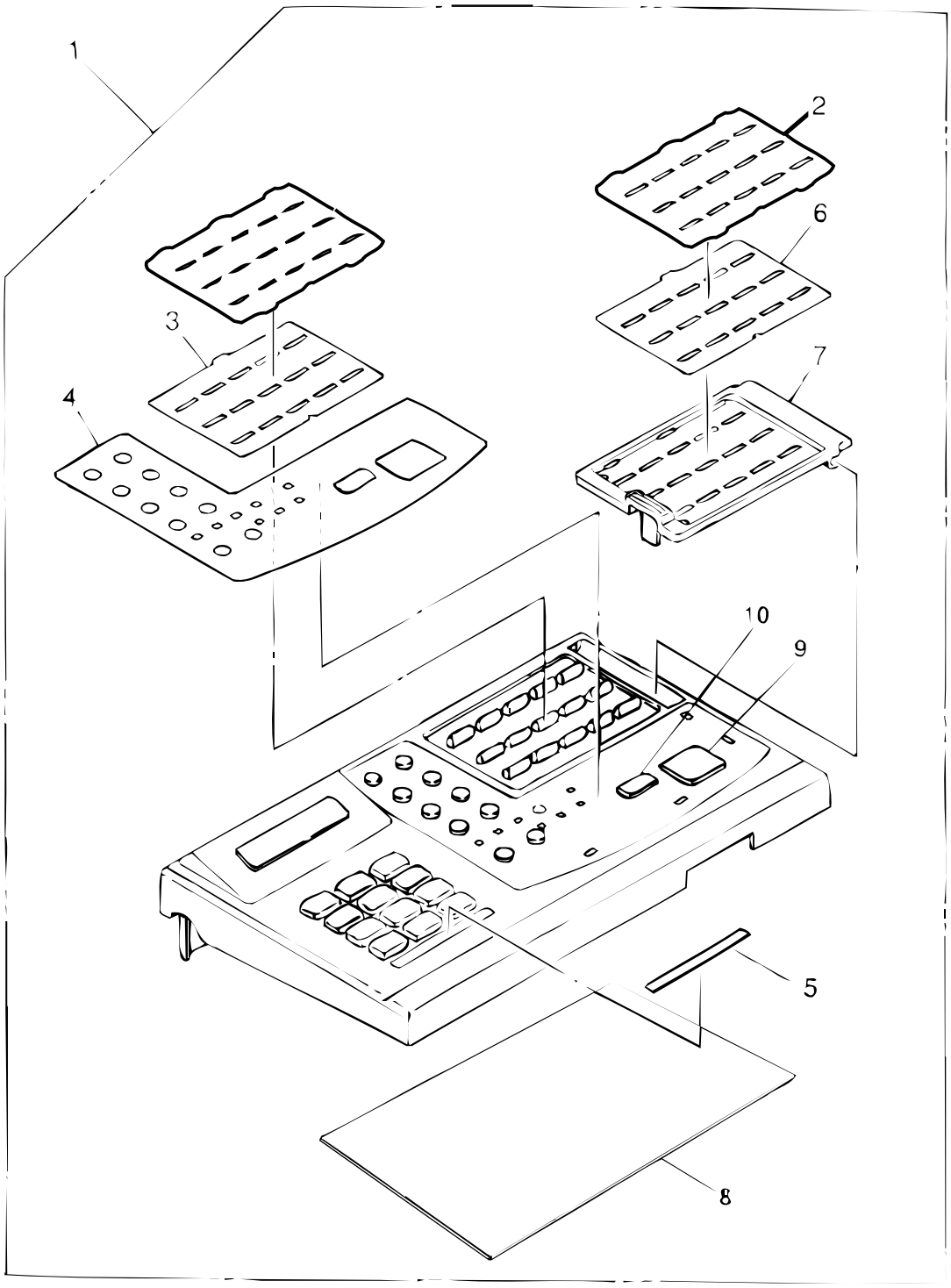
SECTION 2 CONTROL PANEL ASSEMBLY (OKIFAX 5500/5600)



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Section 2 CONTROL PANEL ASSEMBLY

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1a	40105301	Unit-050V OPE Panel	1	ODA
	1b	40105302	Unit-050V OPE Panel	1	OEL Note.1
	1c	40105305	Unit-050V OPE Panel	1	OKI-INT
	1d	40105306	Unit-050V OPE Panel	1	TN
	1e	40079101	Unit-175V OPE Panel	1	ODA
	1f	40079102	Unit-175V OPE Panel	1	OEL
	1g	40079105	Unit-175V OPE Panel	1	OKI-INT
	1h	40079106	Unit-175V OPE Panel	1	TN
4	1i	40105308	Unit-050V OPE Panel	1	5300 PLUS ODA
4	1j	40079108	Unit-175V OPE Panel	1	5600 PLUS ODA
	2	4PB4120-1074P001	One-touch Cover Film-151/175	1	Note 2
4	3a	4PB4120-1073P101	One-touch Sheet-151/175	1	Note 2
4	3b	40047011	Sheet-O-050V	1	TN Note 2
	4a	40047110	Sheet-F-050V	1	ODA
	4b	40047101	Sheet-F-050V	1	OKI-INT Note 2
4	4c	3PB4120-1070P022	FUNCTION SHEET-050	1	TN
	4d	40076810	Sheet-F-175V	1	ODA
	4e	40076801	Sheet-F-175V	1	OKI-INT
4					
4	4g	40047131	Sheet-F-050V	1	5300 PLUS ODA
4	4h	40076830	Sheet-F-175V	1	5600 PLUS ODA
	5a	4PB4014-4776P201	Ten Key Label	1	ODA
	5b	4PB4014-4776P211	Ten Key Label	1	OKI-INT OEL
	5c	4PB4014-4776P221	Ten Key Label	1	TN
	6a	40047001	Sheet-O-050V	1	OKI Note 2
4	6b	40047010	Sheet-O-050V	1	TN Note 2
	7a	1PP4120-1111P001	One-touch Cover-151	1	
	7b	1PP4120-1072P001	One-touch Cover-175	1	
	8	40086801	Board-05W	1	
2	9a	40075001	Button-Start (S)	1	OKI, TN
	9b	40075002	Button-Start (S)	1	LANIER
2	10a	40075101	Button-Stop (S)	1	OKI, TN
	10b	40075102	Button-Stop (S)	1	LANIER

Note 1: Not includes items 2, 4, 5,6 for OEL version.

Note 2: Parts will be supported in OEL.

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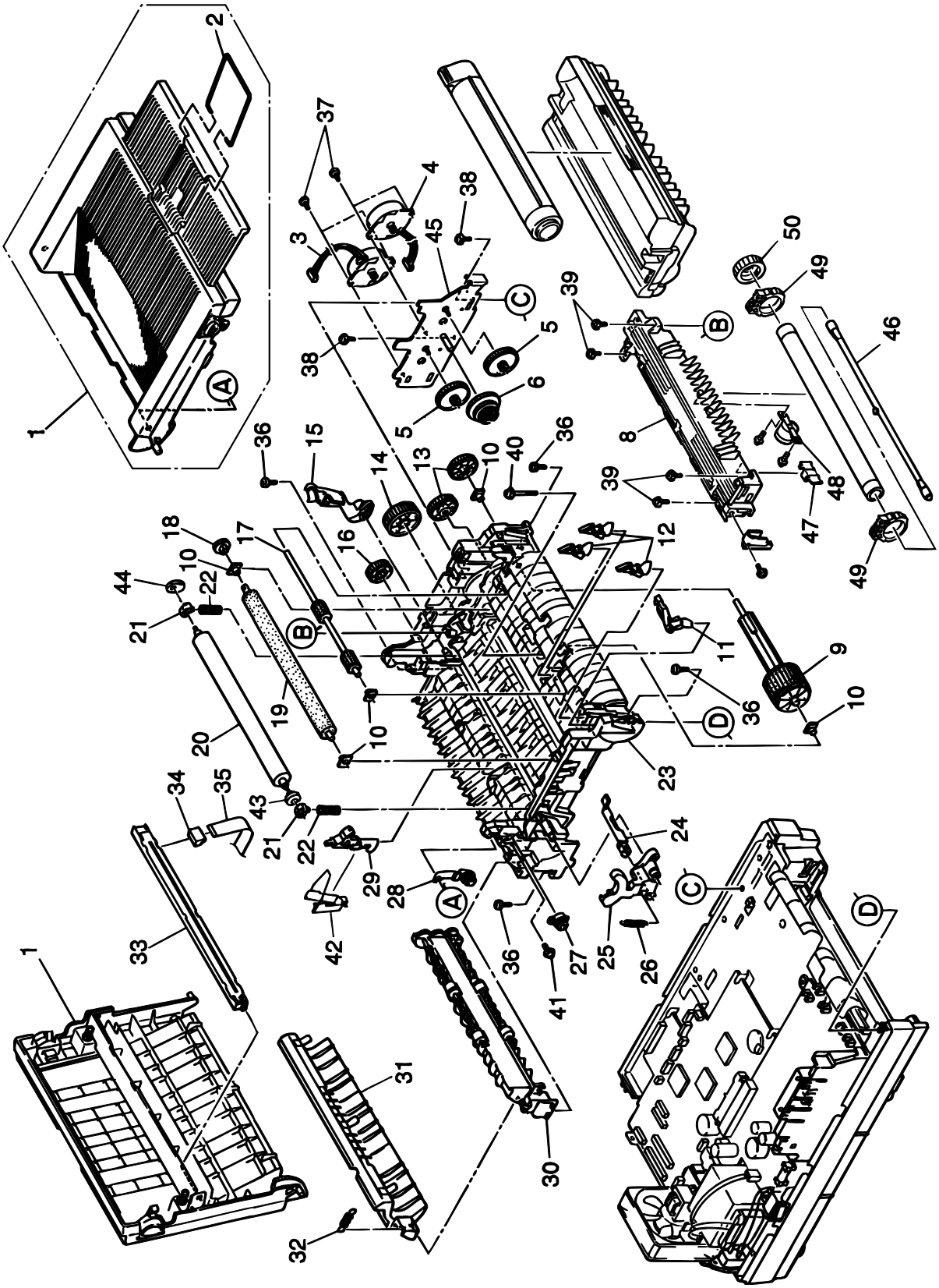
SECTION 3 PRINTER ASSEMBLY



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Section 3 PRINTER ASSEMBLY 1/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	2PA4120-1214G001	Stacker Cover Assy.	1	
	2	4PB3517-1567P001	Guide Wire	1	
	3	4YB4120-1117P001	Pulse Motor (Main)	1	
	4	4YB4120-1118P001	Pulse Motor (Resist)	1	
	5	4PP4083-2593P001	Idle Gear (Z90/16)	2	
	6	3PP4083-6076P001	Reduce Speed Gear	1	
	8a	2YX4120-1128G001	Fusing Unit Assy. (120V)	1	ODA
	8b	2YX4120-1128G002	Fusing Unit Assy. (230V)	1	Except ODA
	9	3PA4122-1295G001	Hopping Roller Assy.	1	
	10	4PP4083-6022P002	Bearing	5	
	11	4PP4083-6086G001	Toner Sensor (Adhesive)	1	
	12	4PP4083-6083P001	Sensor Plate (Inlet)	3	
	13	4PB4083-6024P001	One-way Clutch Gear	2	
	14	4PP4083-6080P001	Idle Gear (Z36)	1	
	15	3PP4083-6054P001	Reset Lever (R)	1	
	16	4PP4083-6081P001	Idle Gear (Z22)	1	
	17	3PB4083-6030P001	Resistration Roller	1	
	18	4PP4083-6042P001	TR Gear	1	
2	19	3YB4083-7640P002	Transfer Roller	1	
	20	3PB4083-6064P002	Back-up Roller	1	
	21	4PP4083-6052P001	Bush	2	
	22	4PP4083-6065P001	Bias Spring	2	
	23	1PP4083-6035G001	Lower Base Sub Assy.	1	
	24	3PP4083-6058P001	Switch Arm	1	
	25	3PP4083-6053P001	Reset Lever (L)	1	
	26	4PP4083-6057P001	Reset Spring	1	
	27	4PB4083-6197P001	Dumper	1	
	28	4PP4083-6191G001	Dumper Arm	1	
	29	4PA4083-6025G001	Sensor Plate (Outlet)	1	
	30	2PA4120-1129G001	Exit Roller Assy.	1	

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Section 3 PRINTER ASSEMBLY 2/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	31	2PA4120-1085G001	Release Guide Assy.	1	
	32	4PP4120-1087P001	Release Spring	1	
	33	4YA4116-1228G001	LED Head	1	
	34	224A1286P0140	PX-14 PC Connector	1	
	35	4YX4120-1124G001	LED Cable Assy.	1	
	36		Screw		
	37		Screw		
	38		Screw		
	39		Screw		
	40		Screw		
	41		Screw		
	42	4PA4120-1170G001	Sensor Wire Assy.	1	
	43	4PP4120-1209P001	Washer B	1	
	44	4PP4120-1210P001	Washer C	1	
	45	3PP4083-6071G001	Motor Plate Assembly	1	
	46a	3PB4120-1105P001	Halogen Lamp (Q)-F120	1	
	46b	3PB4120-1105P002	Halogen Lamp (Q)-F230	1	
	47	4PB4083-6106P001	Heat Sensor	1	
	48	4PB4083-6293P001	Thermostat A	1	
	49	4PB4083-6128P001	Bearing B	2	
	50	4PP4083-6113P001	Gear A	1	

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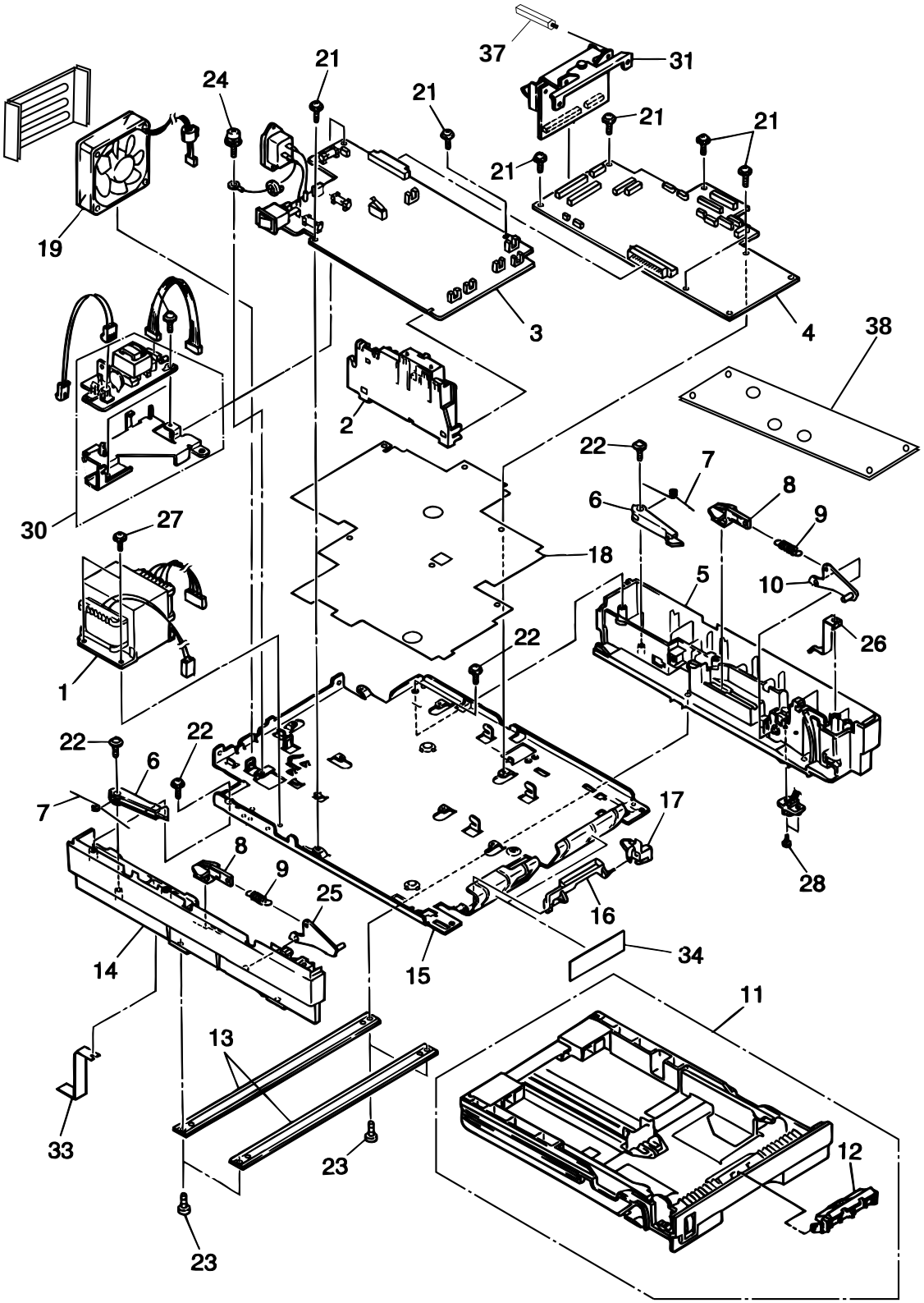
SECTION 4 BASE ASSEMBLY



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Section 4 BASE ASSEMBLY 1/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1a	4YB4049-7082P001	Power Transformer	1	(120V)
	1b	4YB4049-7083P001	Power Transformer	1	(230V)
	2	3PA4083-6090G001	Contact Assy.	1	
4	3a	41319201	PWR Unit-ACDC DROP	1	(120V)
4	3b	41319202	PWR Unit-ACDC DROP	1	(230V)
4					
4					
	4c	40488501	Board-17E	1	For 5300ENC
4	4d	40476111	Board-E17-11	1	For 5600VE
4	4e	40476112	Board-E17-12	1	For 5500VE
4	4f	40476113	Board-E17-13	1	For 5300VE
4	4g	40476114	Board-E17-14	1	For 5200VE
4	4h	40476105	Board-E17-5	1	For 5500CHN
4	4i	40476106	Board-E17-6	1	For 5200CHN
4	4j	40476115	Board-E17-15	1	For 5600 PLUS ODA
4	4k	40476116	Board-E17-16	1	For 5500 PLUS OEL,etc
4	4l	40476117	Board-E17-17	1	For 5300 PLUS ODA
4	4m	40476118	Board-E17-18	1	For 5200 PLUS OEL,etc
	5	2YX4076-7012G001	Cassette Guide (R) Assy.	1	
	6	3PP4083-7653P001	Cassette Lock Lever	2	
	7	4PP4083-7655P001	Cassette Lock Spring	2	
	8	4PP4122-1170P001	Link Pull Block	2	
	9	4PP4083-7666P001	Sheet Spring	2	
	10	4PP4083-7658G001	Sheet Link (R)	1	
	11	1PA4120-1162G001	Paper Cassette Assy.	1	
	12	3PP4083-5663G001	Separation Frame Assy.	1	
	13	3PP4083-7660P001	Beam	2	
	14	2PA4076-7011G001	Cassette Guide (L) Assy.	1	
	15	1PP4120-1078P001	Base Plate	1	
	16	3PP4083-6154P001	Cassette Sensor Plate	1	
	17	4PP4083-7667P001	Sensor Plate (Supply Paper)	1	
	18	2PB4120-1103P001	Insulator	1	
	19	4YB4120-1119P001	DC Fan Motor	1	
	20				
	21		Screw		
	22		Screw		
	23		Screw		
	24		Screw		
	25	4PP4083-7657G001	Sheet Link (L)	1	
	26	4PP4083-7662P001	FG Plate C	1	
	27		Screw		
	28		Screw		
	29				
2	30	40521301	Plate Assy.-SPSU	1	(230V)

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Section 4 BASE ASSEMBLY 2/2

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
2	31a	40123401	Plate Assy.-PC I/F	1	Option
2	31b	40544901	Plate Assy.-ENC	1	For 5300ENC
	32				
	33	4PP4083-7665P001	FG Plate D	1	
	34	4YC4061-5115P001	Polyethylene Tape	2	
	35				
4					
2	37	4PB4120-1130P001	Screw-Hexagon	2	For 5300ENC
2	38	40545401	Sheet-Shield	1	For 5300ENC

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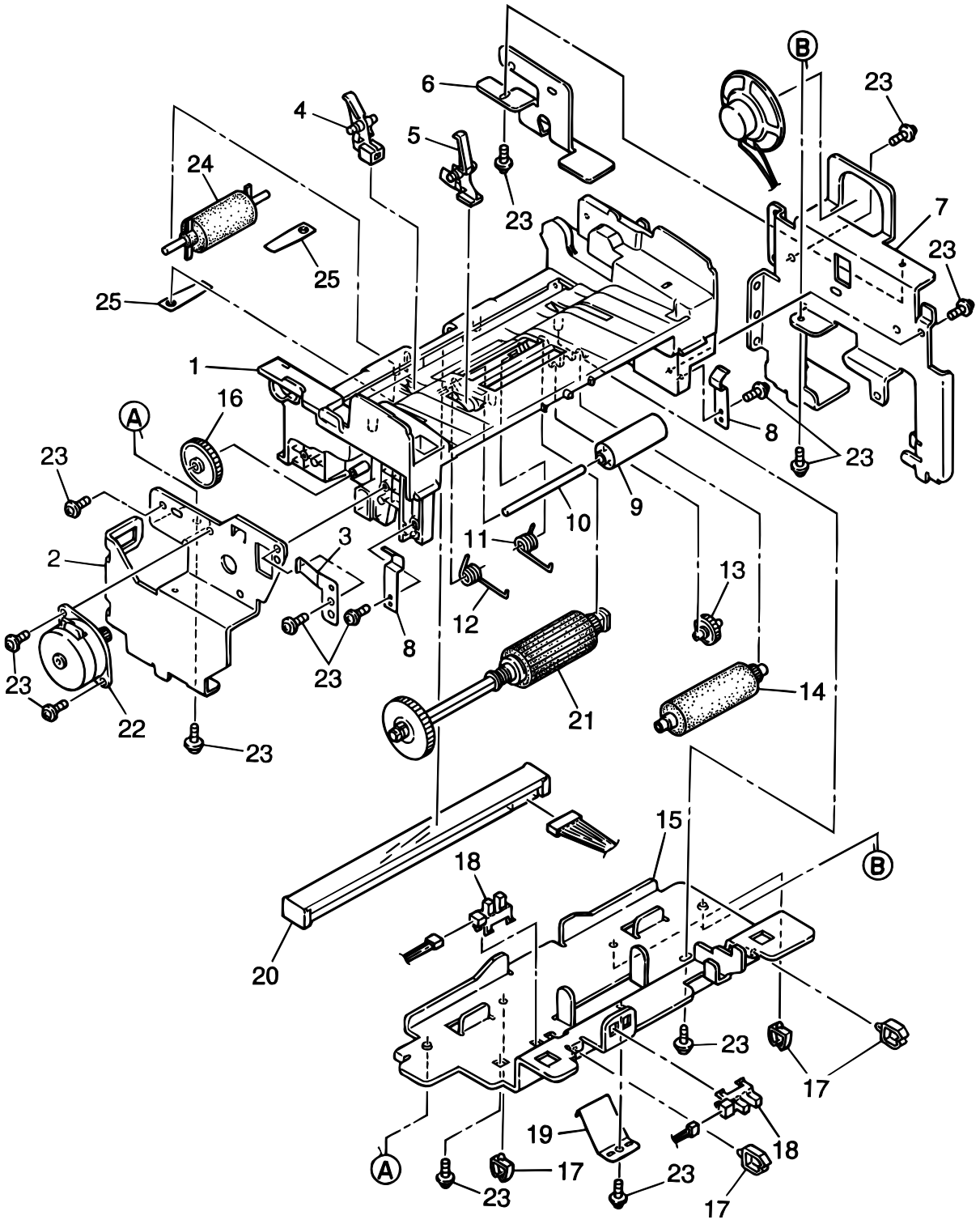
SECTION 5 SCAN UNIT



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Section 5 SCAN UNIT

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	1PP4120-1015P001	Scanner Frame	1	
	2	2PP4120-1034P001	Scanner Base (L)	1	
	3	4PP4120-1023P001	Earth Plate ADF	1	
	4	3PP4120-1017P001	PC2 Lever	1	
	5	3PP4120-1016P001	PC1 Lever	1	
	6	3PP4120-1038P001	Pocket Plate	1	
	7	2PP4120-1037P001	Scanner Base (R)	1	
	8	4PP4120-1032P001	Latch Spring	2	
	9	4PP3529-5045P001	Pinch Roller	1	
	10	4PP4120-1020P001	Pinch Roller Shaft	1	
	11	4PP4120-1022P001	Pinch Spring R	1	
	12	4PP4120-1021P001	Pinch Spring L	1	
	13	4PP3529-5033P001	Gear (Z20)	1	
	14	4PA3529-5082G001	Sub-roller Assy.	1	
	15	2PP4120-1029P001	Scanner Bottom Plate	1	
	16	4PP3529-5039P001	Gear (Z81/15)	1	
	17	4PB3527-5803P001	Mini Clamp	4	
4	18	40135301	Photo Interrupter	2	
	19	4PP4120-1030P001	Scanner Spring	1	
	20a	4YB4120-1121P001	Contact Image Sensor-A4	1	200DPI
	20b	40141401	Contact Image Sensor-A4	1	300DPI
	21	3PA4120-1018G001	ADF Roller Assy.	1	
	22	40047601	Motor-S (FX-VP)	1	
	23		Screw		
	24	4PB4120-1024P001	Eject Pinch Roller	1	
	25	4PP4120-1025P001	Eject Pinch Spring	2	

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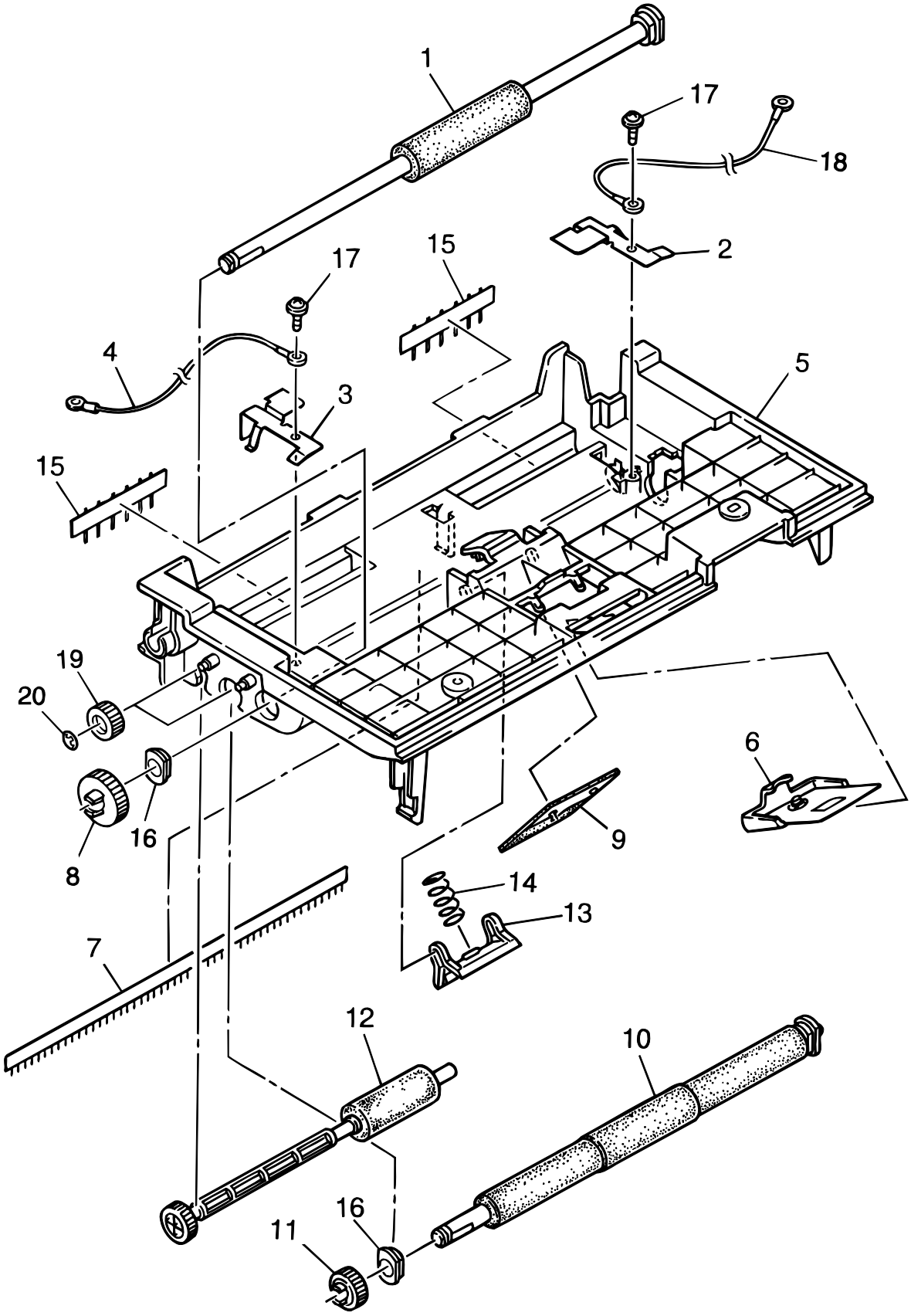
SECTION 6 PAPER GUIDE U ASSEMBLY



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Section 6 PAPER GUIDE U ASSEMBLY

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	3PA4120-1045G001	Feed Roller (1) Assy.	1	
	2	4PP4120-1226P001	Earth Plate (SR)	1	
	3	4PP4120-1227P001	Earth Plate (SL)	1	
	4	4YS4011-1714P002	Earth Code	1	
	5	1PP4120-1040P001	Paper Guide (U)	1	
	6	4PA4120-1041G001	Pinch Plate Assy.	1	
	7	4PB4120-1051P001	Electrical Discharge Brush	1	
	8	4PP3529-5035P001	Gear (Z28)	1	
	9	4PA3529-5087G001	Separation Rubber Assy.	1	
	10	3PA4120-1049G001	Sensor Roller Assy.	1	
	11	4PP3529-5034P001	Gear (Z22)	1	
	12	3PA4120-1052G001	Exit Roller Assy.	1	
	13	4PP3527-5153P001	Back-up Plate	1	
	14	4PP4120-1044P001	ADF Spring	1	
	15	4PB4120-1051P002	Electrical Discharge Brush	2	
	16	4PP3522-3568P001	Bearing	2	
	17		Screw		
	18	4YS4011-1714P003	Earth Code	1	
	19	4PP3527-5034P001	Gear (Z16)	2	
	20	4PB4013-3501P003	CS-Ring (CS4-SUS)	2	

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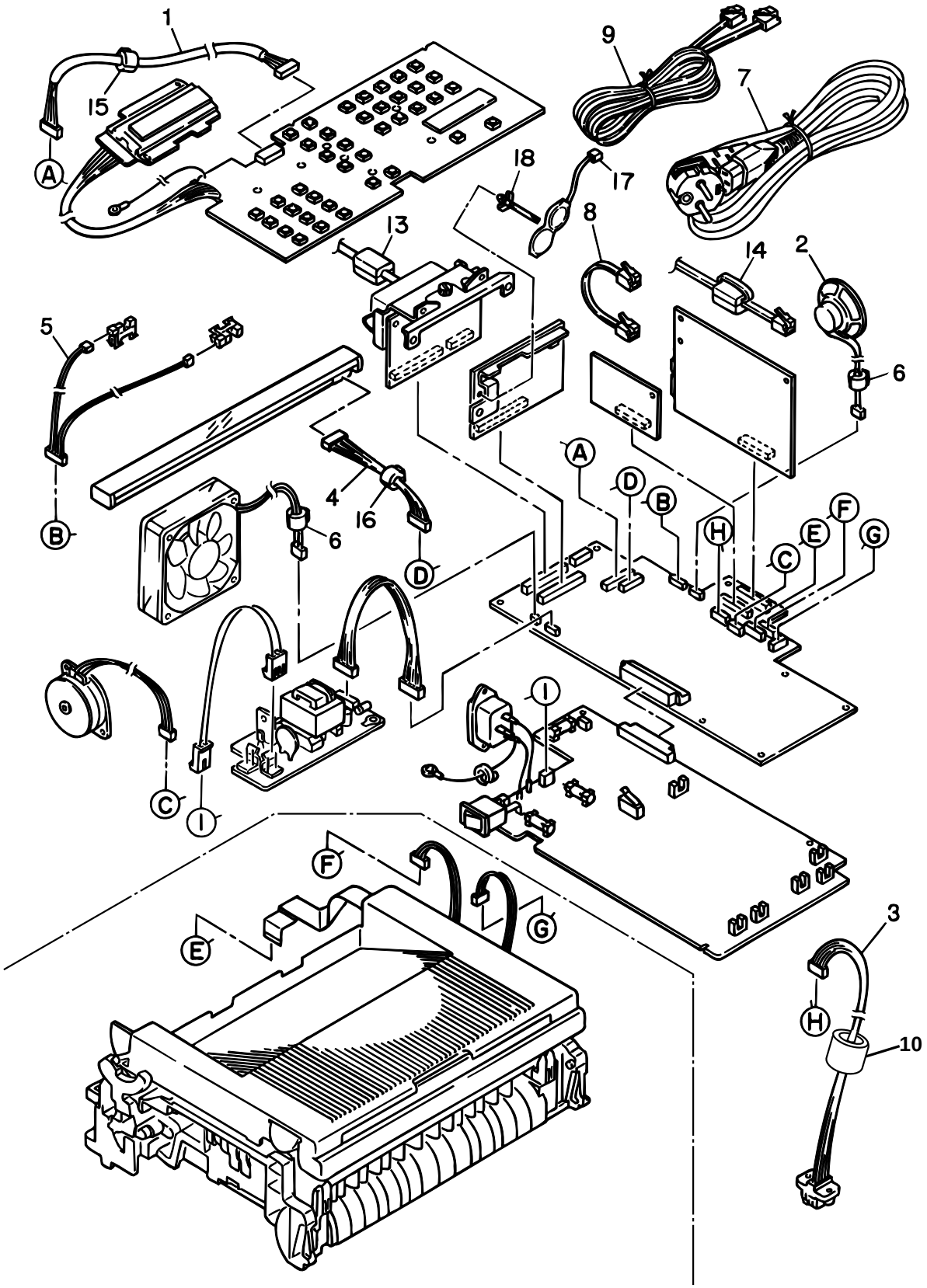

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Section 7 CABLES

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	40040002	CONN Cord-Wire (OPE)	1	
	2	4YB4120-1026P001	Speaker	1	
	3	3YS4111-3527P002	Connector Code (2nd Tray)	1	
	4	4YS4111-3441P001	P.W.A. Connector Code	1	(CIS)
	5	4YS4111-3442P001	P.W.A. Connector Code	1	(PC1/2)
	6	1051070C0001	TFC-16813 Core	2	
	7a	3YS4011-1329P002	AC CORD A	1	OKI-INT
	7b	4YS3512-1485P001	AC CORD	1	ODA Note 2
	7c	236A6058P0001	AC CORD	1	OEL Note 1
	8	4YS4111-5581P001	Cord (TEL1-TEL2)	1	
	9a	236A3161P0002	TEL/LINE Cable	1	ODA
	9b	4YB3522-1297G001	TEL/LINE Cord	1	TN, GER Note 1
2	10	105A1051C3002	Ferrite Core G	1	
	11	40048201	Connection Cord-Wire (PSU)	1	
	12	40040101	Connection Cord-Wire (SPSU)	1	
	13	105A1062C0002	0443-167251 Core	1	
	14	105A1068C1004	5FC-8 Core	1	
	15	105A1070C0004	TFC-23-11-14 Core	1	
	16	105A1070C0003	Ferrite Core E	1	
	17	4YB4120-1094P001	Secondary Battery	1	
	18	4LP-1466	Snap Band		

Note 1: Parts will be supplied by OUK.

Note 2: Parts will be supplied by ODA.

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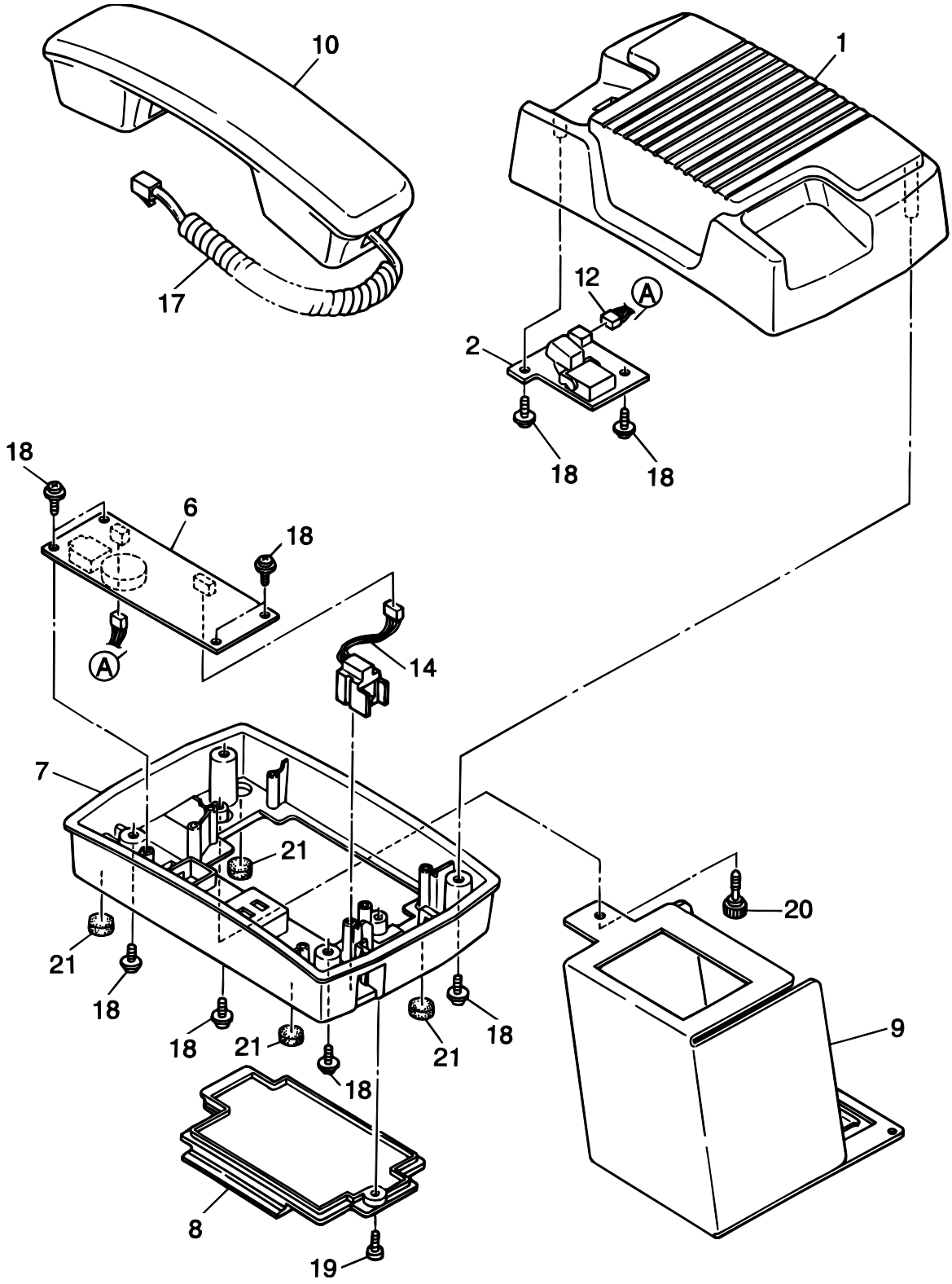

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Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	1PP4120-1095P011	Cradle	1	
	2	4YA4129-1006G001	Board-Hook	1	
	6	4YA4129-1005G001	Board-TELU	1	
	7	1PP4120-1096P001	Base-Cradle	1	
	8	3PP4120-1097P001	Cover-Terminal	1	
	9	3PA4120-1140G001	Attachment-Assembly	1	Except OKIOFFICE44
	10	4YB3512-2029G004	Handset	1	
	12	4YS4111-5552P001	Connection-Cord	1	
	14	4YS4111-5551P001	Moduler-Jack-Cord	1	
	17	4YS3522-1252G002	Cord-Handset	1	
	18		Tapping-Screw		
	19		Screw		
	20	4PB4120-1136P001	Knob-Screw	1	Except OKIOFFICE44
	21	4PB4016-1960P001	Rubber-Hoot	4	

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Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	1PP4120-1095P012	Cradle	1	
	2	4YA4129-1006G001	Board-Hook	1	
	6	4YA4129-1005G001	Board-TELU	1	
	7	1PP4120-1096P002	Base-Cradle	1	
	8	3PP4120-1097P002	Cover-Terminal	1	
	9	3PA4120-1140G001	Attachment-Assembly	1	
	10	4YB3512-2029G001	Handset	1	
	12	4YS4111-5552P001	Connection-Cord	1	
	14	4YS4111-5551P001	Moduler-Jack-Cord	1	
	17	4YS3522-1252G002	Cord-Handset	1	
	18		Tapping-Screw		
	19		Screw		
	20	4PB4120-1136P001	Knob-Screw	1	
	21	4PB4016-1960P001	Rubber-Hoot	4	

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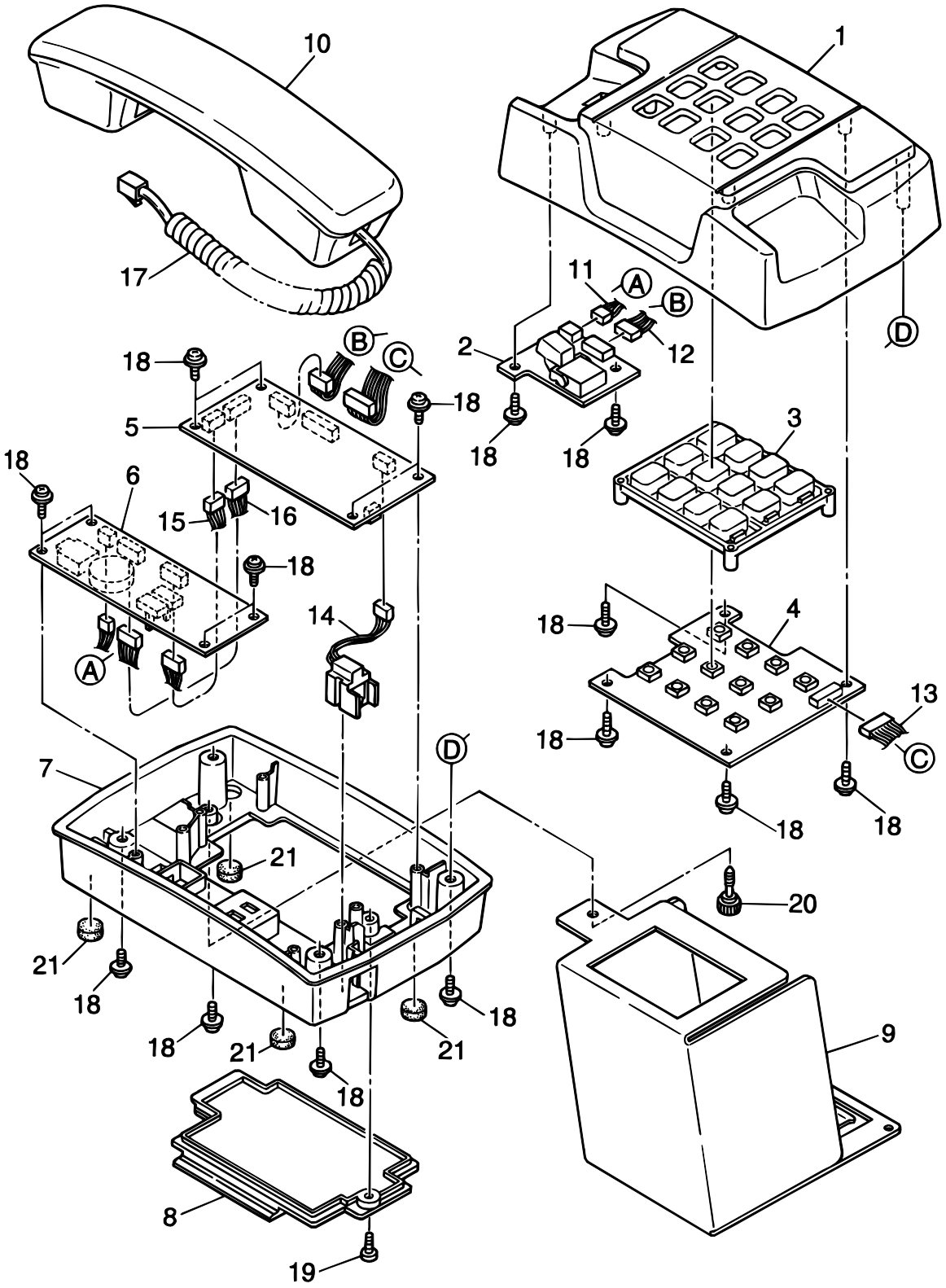

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Section 8 OPTION TELEPHONE (UK, ITA, NOR, DEN, BEL)

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	1PP4120-1095P011	Cradle	1	
	2	4YA4129-1006G001	Board-Hook	1	
	3	2PP4120-1068P001	Ten-Key	1	
	4	4YA4129-1003G001	Board-Tenkey	1	
	5	4YU3528-1022G014	Board-TEL W1	1	
	6	4YA4129-1004G001	Board-NTIF	1	
	7	1PP4120-1096P001	Base-Cradle	1	
	8	3PP4120-1097P001	Cover-Terminal	1	
	9	3PA4120-1140G001	Attachment-Assembly	1	Except OKIFAX4100
	10	4YB3512-2029G004	Handset	1	
	11	4YS4111-5553P001	Connection-Cord	1	
	12	4YS4111-5552P001	Connection-Cord	1	
	13	4YS4111-5556P001	Connection-Cord	1	
	14	4YS4111-5551P001	Moduler-Jack-Cord	1	
	15	4YS4111-5554P001	Connection-Cord	1	
	16	4YS4111-5555P001	Connection-Cord	1	
	17	4YS3522-1252G002	Cord-Handset	1	
	18		Tapping-Screw		
	19		Screw		
	20	4PB4120-1136P001	Knob-Screw	1	Except OKIFAX4100
	21	4PB4016-1960P001	Rubber-Hoot	4	

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Section 8 OPTION TELEPHONE (ABX)

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	1PP4120-1095P002	Cradle	1	
	2	4YA4129-1006G001	Board-Hook	1	
	3	2PP4120-1068P002	Ten-Key	1	
	4	4YA4129-1003G001	Board-Tenkey	1	
	5	4YU3528-1022G014	Board-TEL W1	1	
	6	4YA4129-1004G001	Board-NTIF	1	
	7	1PP4120-1096P002	Base-Cradle	1	
	8	3PP4120-1097P002	Cover-Terminal	1	
	9	3PA4120-1140G001	Attachment-Assembly	1	
	10	4YB3512-2029G001	Handset	1	
	11	4YS4111-5553P001	Connection-Cord	1	
	12	4YS4111-5552P001	Connection-Cord	1	
	13	4YS4111-5556P001	Connection-Cord	1	
	14	4YS4111-5551P001	Moduler-Jack-Cord	1	
	15	4YS4111-5554P001	Connection-Cord	1	
	16	4YS4111-5555P001	Connection-Cord	1	
	17	4YS3522-1252G002	Cord-Handset	1	
	18		Tapping-Screw		
	19		Screw		
	20	4PB4120-1136P001	Knob-Screw	1	
	21	4PB4016-1960P001	Rubber-Hoot	4	

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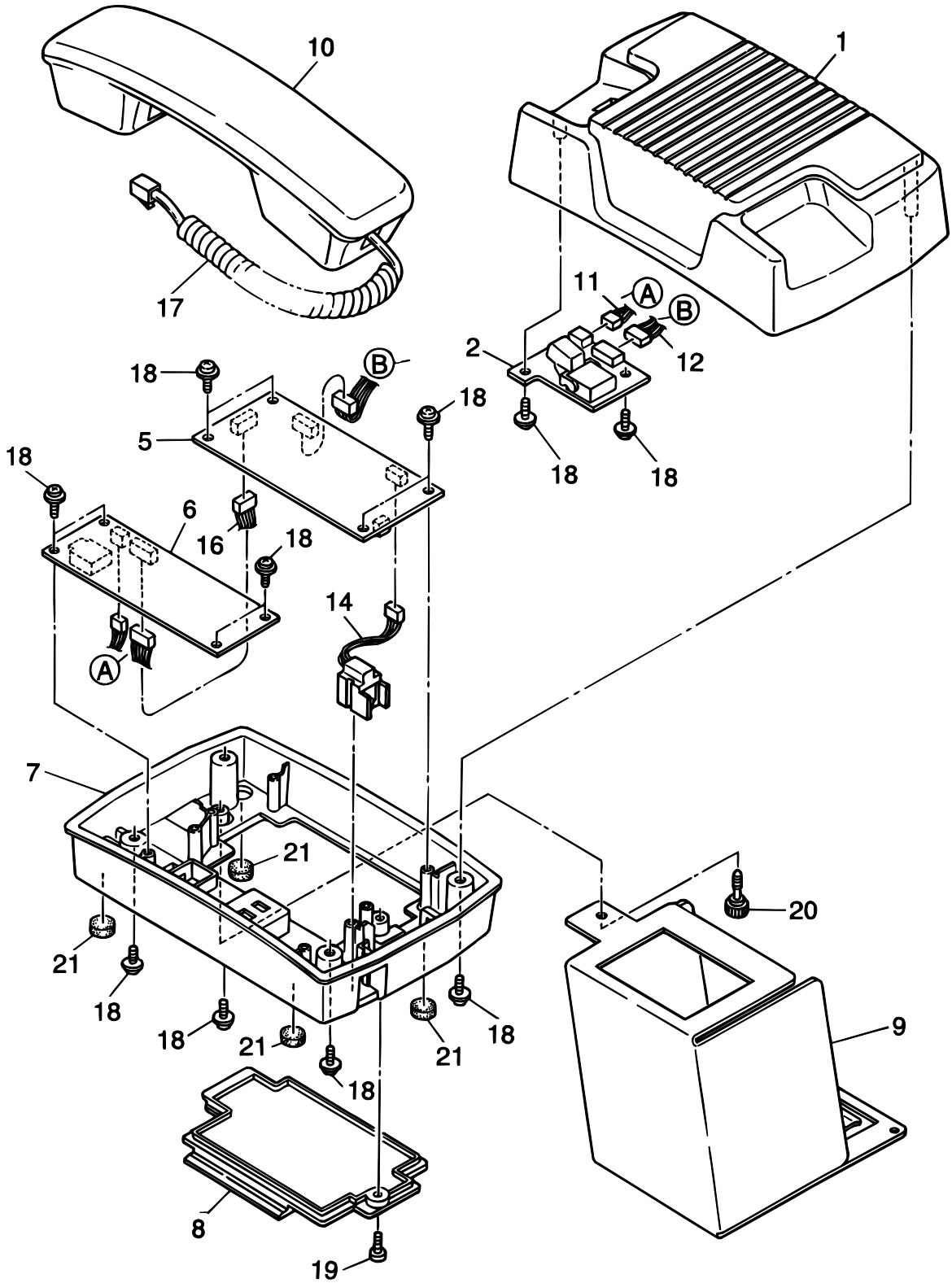

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Section 8 OPTION TELEPHONE (HOL, GER, FRA, SWITZ, AUT, INT'L)

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	1PP4120-1095P011	Cradle	1	
	2	4YA4129-1006G001	Board-Hook	1	
	5a	4YU3528-1037G011	Board-TEL 11	1	SWITZ, AUS
	5b	4YU3528-1037G003	Board-TEL 3	1	HOL, OEL-INT'L
	5c	4YU3528-1038G013	Board-TEL 13	1	GER
	5d	4YU3528-1033G018	Board-TEL W2F	1	FRA
	5e	4YU3528-1037G007	Board-TEL 7	1	OKI-INT'L
	6a	4YA4129-1004G002	Board-NTIF	1	SWITZ, AUS
	6b	4YA4129-1004G003	Board-NTIF	1	HOL, OEL-INT'L, GER, OKI-INT'L
	6c	4YA4129-1004G004	Board-NTIF	1	FRA
	7	1PP4120-1096P001	Base-Cradle	1	
	8	3PP4120-1097P001	Cover-Terminal	1	
	9	3PA4120-1140G001	Attachment-Assembly	1	Except OKIFAX4100
	10	4YB3512-2029G004	Handset	1	
	11	4YS4111-5553P001	Connection-Cord	1	
	12	4YS4111-5552P001	Connection-Cord	1	
	14	4YS4111-5551P001	Moduler-Jack-Cord	1	
	16	4YS4111-5555P001	Connection-Cord	1	
	17	4YS3522-1252G002	Cord-Handset	1	
	18		Tapping-Screw	1	
	19		Screw		
	20	4PB4120-1136P001	Knob-Screw	1	Except OKIFAX4100
	21	4PB4016-1960P001	Rubber-Hoot	4	

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Section 8 OPTION TELEPHONE (ABB, AB, FTZ, FR)

Rev.	No.	Oki parts Number	Description	Q'ty	Remarks
	1	1PP4120-1095P012	Cradle	1	
	2	4YA4129-1006G001	Board-Hook	1	
	5a	4YU3528-1037G011	Board-TEL 11	1	ABB
	5b	4YU3528-1037G009	Board-TEL 9	1	AB
	5c	4YU3528-1038G013	Board-TEL 13	1	FTZ
	5d	4YU3528-1033G018	Board-TEL W2F	1	FR
	6a	4YA4129-1004G002	Board-NTIF	1	ABB
	6b	4YA4129-1004G003	Board-NTIF	1	AB, FTZ
	6c	4YA4129-1004G004	Board-NTIF	1	FR
	7	1PP4120-1096P002	Base-Cradle	1	
	8	3PP4120-1097P002	Cover-Terminal	1	
	9	3PA4120-1140G001	Attachment-Assembly	1	
	10	4YB3512-2029G001	Handset	1	
	11	4YS4111-5553P001	Connection-Cord	1	
	12	4YS4111-5552P001	Connection-Cord	1	
	14	4YS4111-5551P001	Moduler-Jack-Cord	1	
	16	4YS4111-5555P001	Connection-Cord	1	
	17	4YS3522-1252G002	Cord-Handset	1	
	18		Tapping-Screw	1	
	19		Screw		
	20	4PB4120-1136P001	Knob-Screw	1	
	21	4PB4016-1960P001	Rubber-Hoot	4	

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APPENDIX E BOARD LAYOUT

CONTENTS

No.	ITEMS	OKIOFFICE 44	OKIFAX 4100	OKIFAX 5200	OKIFAX 5300	OKIFAX 5500	OKIFAX 5600
1	R44 Package layout	○	○				
2	04W Package layout	○	○				
3	UNC Package layout	○			○		○
4	WN5 Package layout		○	○		○	
5	DN5 Package layout		○	○		○	
6	FN5 Package layout		○	○		○	
7	048_POW (120V) Package layout	○					
8	048_POW (230V) Package layout		○				
9	TLHV Package layout	○	○				
10	CTR Package layout (option)	○	○*	○*	○*	○*	○
11	MEM Package layout (option)	○	○				
12	TELU Package layout (option)	○			○		○
13	TEL-W1 Package layout (option)		○	○		○	
14	TEL-W2(AB) Package layout (option)		○	○		○	
15	TEL-W2(ABB) Package layout (option)		○	○		○	
16	TEL-W2D Package layout (option)		○	○		○	
17	TEL-W2F Package layout (option)		○	○		○	
18	NTIF Package layout (option)		○	○		○	
19	TENKEY Package layout (option)		○	○		○	
20	HOOK Package layout (option)	○	○	○	○	○	○

21	M17 Package layout			○	○	○	○
22	05W Package layout			○	○	○	○
23	1VP (120V) Package layout				○		○
24	2VP (230V) Package layout			○		○	
25	SUB_POW (120V) Package layout				○		○
26	SUB_POW (230V) Package layout			○		○	
27	MEM Package layout (option)			○	○	○	○
28	TQSB Package layout (option)			○	○	○	○

*: Option

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APPENDIX F SECOND PAPER FEEDER MAINTENANCE MANUAL (OKIFAX 5000 SERIES)

1. OUTLINE

1.1 Functions

When the Second Paper Feeder is installed with the OKIFAX 5000 series facsimile transceiver, the Second Paper Feeder is connected to the facsimile by a connector. The Second Paper Feeder supplies paper automatically through the operation of pulse motor (hopping), which is driven by signals sent from CPU of the Second Paper Feeder under the control of the facsimile.
The main functions are the followings:

- Paper that can be used:

[Paper Type]
- Standard paper: Xerox 4200 (20-lb)
- Special paper: PPC sheets; use of envelopes or thick paper is not possible.
- Cut sheet size: A4, Letter, Legal13, Legal14
- Special size: Paper width: 210 to 216mm
  Paper length: 279.4 to 355.6mm

[Weight]
- 16-lb to 24-lb (60 to 90 g/m^2)

- Paper setting quantity: 500 sheets of paper weighing 64 g/m^2

1.2 External View and Component Names

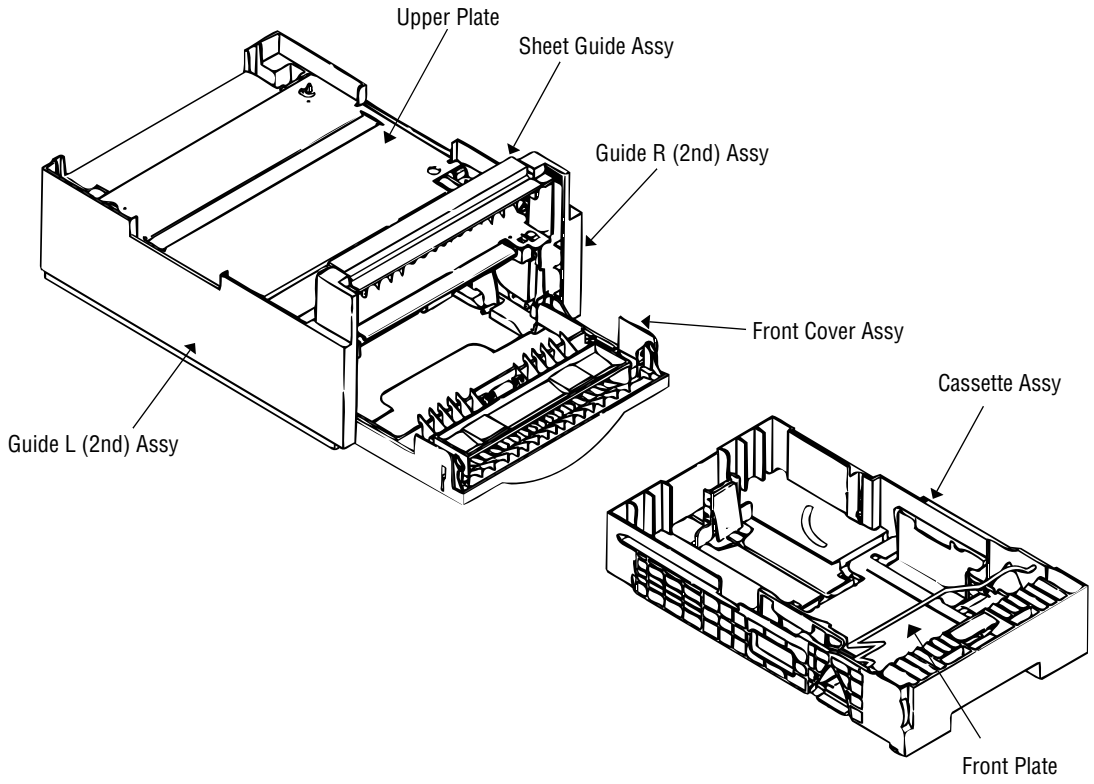

Fig. 1-1 External View and Component Names

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2. MECHANISM DESCRIPTION

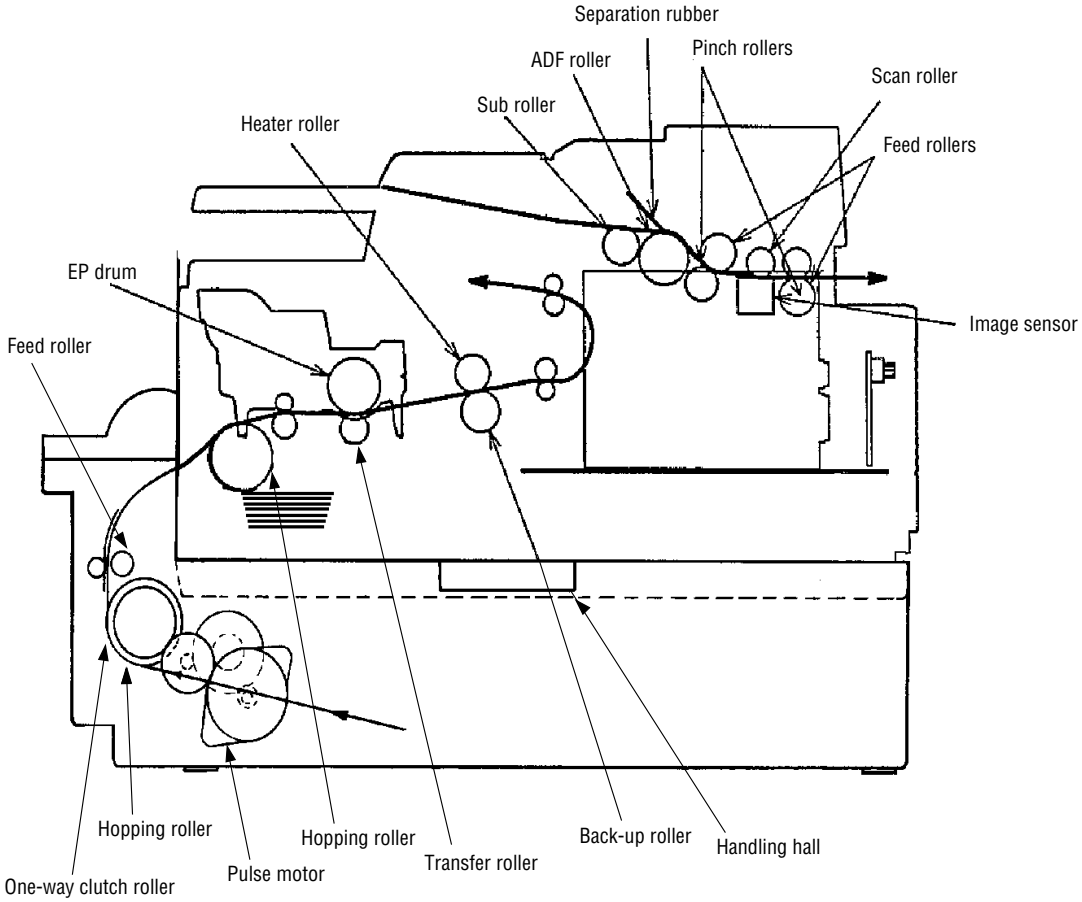
2.1 General Mechanism

The Second Paper Feeder feeds the paper into the facsimile by receiving the signal from the facsimile, which drives the pulse motor inside the Second Paper Feeder, and this motion is transmitted to rotate the one-way clutch of the hopping frame assembly. The paper is delivered from the hopper into the facsimile through the turning of the hopping roller and feed roller.

Once delivered into the facsimile, the paper is then controlled and fed through by pulse motor (registration) of the facsimile.

2.2 Hopper Mechanism

The hopper automatically feeds the facsimile with the paper being set, single sheet at a time. When the paper is loaded in the paper cassette, it is then transported by the pulse motor, carrying forward only a single sheet caught by the separation rubber at a time.



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3. PARTS REPLACEMENT

This section covers the procedures for the disassembly, reassembly and installations in the field.
This section describes the disassembly procedures, and for reassembly procedures, basically proceed with the disassembly procedures in the reverse order.

3.1 Precautions Concerning Parts Replacement

(1) Parts replacements must be carried out, by first turning the facsimile power switch off “O” and removing the facsimile from the Second Paper Feeder.

(2) Do not disassemble the Second Paper Feeder if it is operating normally.

(3) Establish the extent of disassembly suitable for the purpose of the procedure, and do not disassemble any more than necessary.

(4) Only specified service tools may be used.

(5) Disassembly must be carried out according to the prescribed procedures. Parts may be damaged if such procedures are not followed.

(6) Small parts such as screws and collars can easily be lost, therefore these parts should be temporarily fixed in the original location.

(7) When handling printed circuit boards, do not use any glove which may generate static electricity.

(8) Do not place the printed circuit boards directly on the equipment or floor.

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[Service Tools]

Table 3-1 shows the tools required for the replacement of printed circuit boards, assemblies and units in the field.

Table 3-1 Service Tools

No.	Service Tools		Q'ty	Application	Remarks
1		No. 1-100 Philips screwdriver	1	2 ~ 2.5 mm screws	
2		No. 2-100 Philips screwdriver	1	3 ~ 5 mm screws	
3		No. 3-100 screwdriver	1		
4		Digital multimeter	1		
5		Pliers	1		

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3.2 Parts Layout

This section describes the layout of the main components.

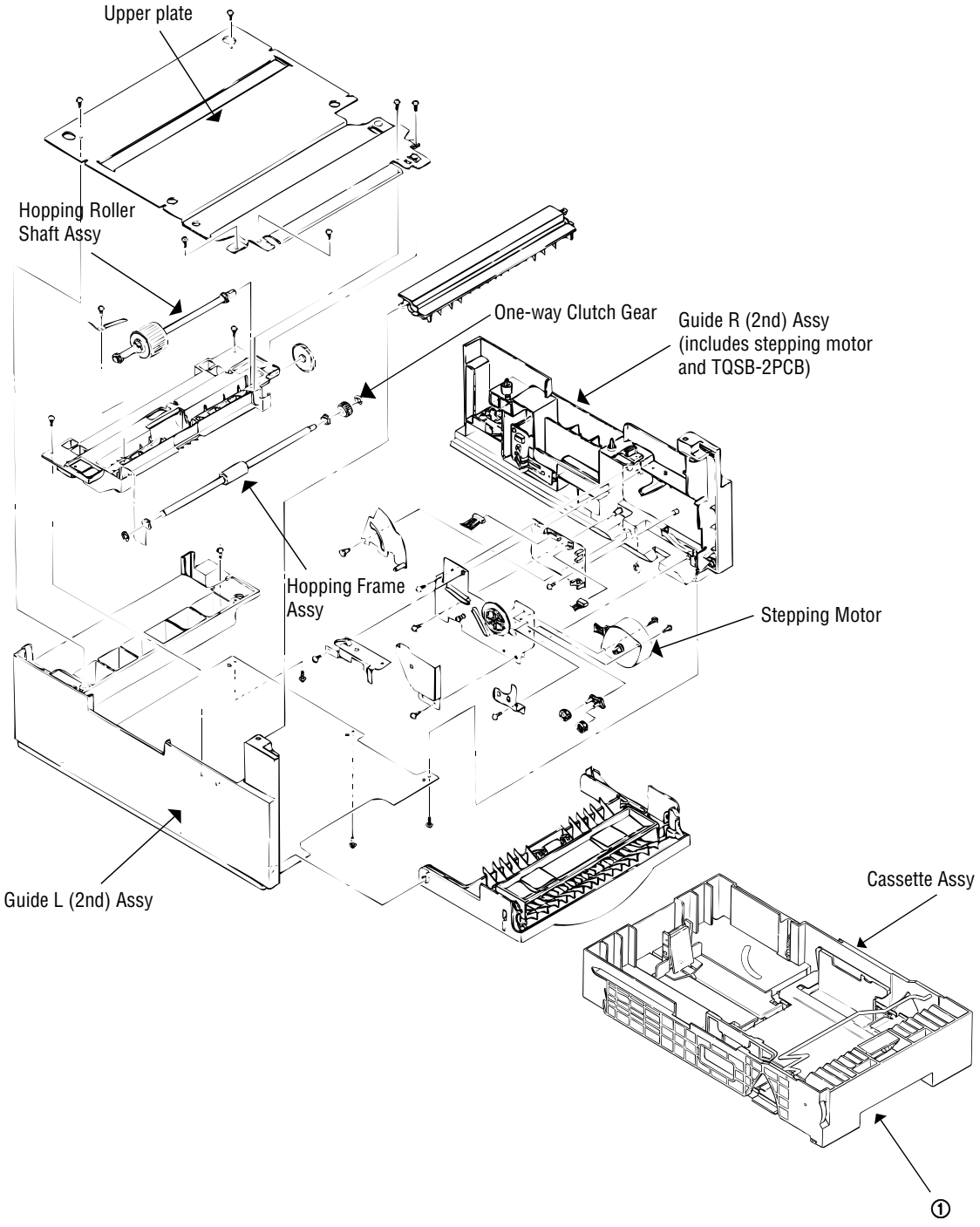

Fig. 3-1

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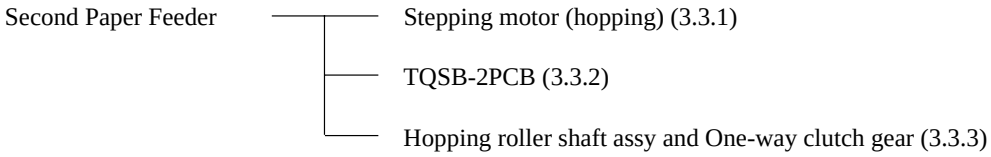
3.3 Parts Replacement Methods

This section describes the parts replacement methods for the components listed in the disassembly order diagram below.



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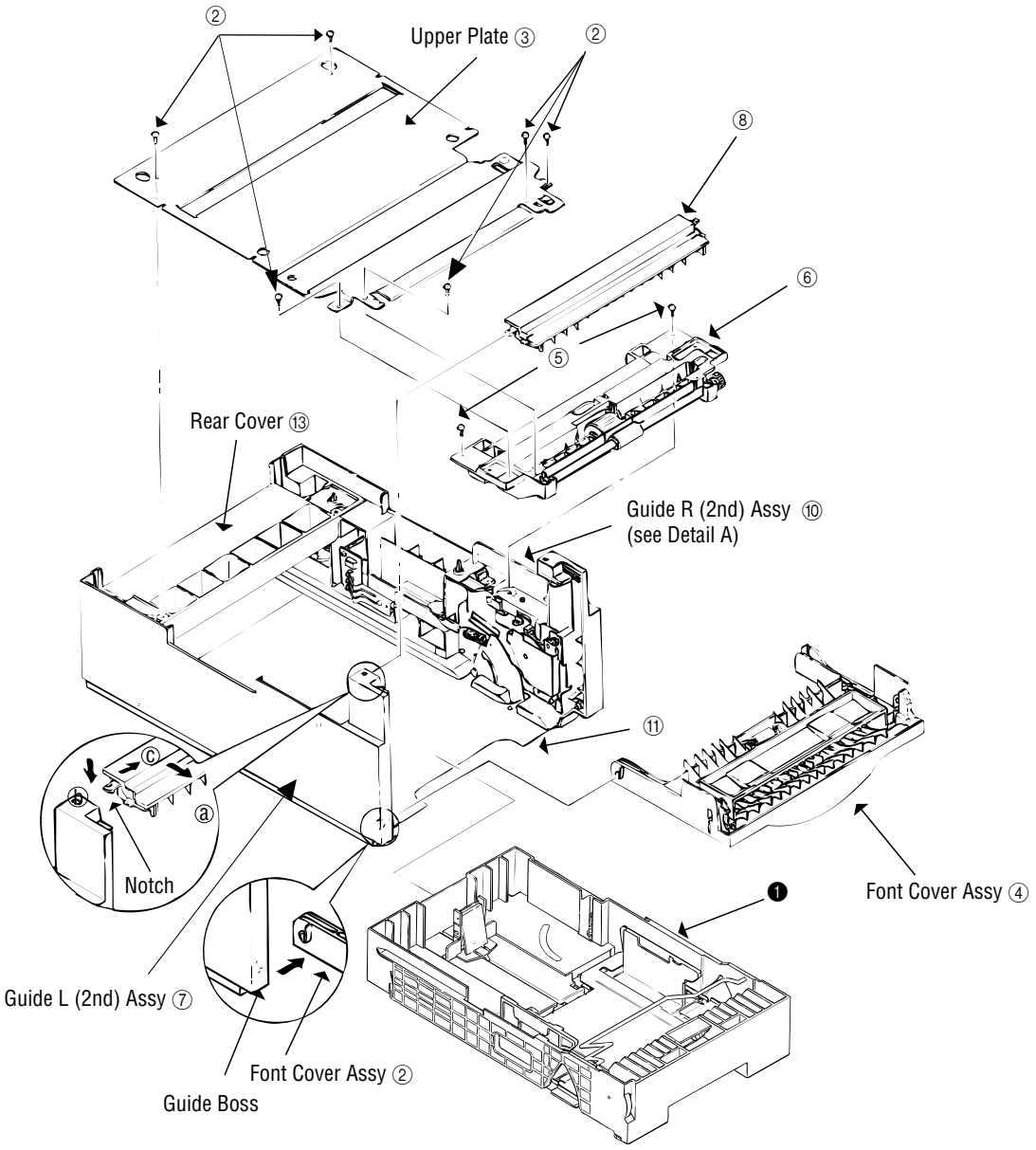
3.3.1 Stepping Motor (Hopping)

(1) Turn the facsimile power switch off, pull out the AC cord from the outlet. Remove the facsimile off Second Paper Feeder.
(2) Take the paper cassette assy ❶ out of Second Paper Feeder.
(3) Remove six screws ② and remove the upper plate ③. Remove two screws ⑤ and remove the hopping frame assy ⑥.
(4) Remove the front cover assy ④ off the guide boss on the guide L (2nd) assy ⑦ by bending the guide L (2nd) assy ⑦ in the direction of arrow shown in the magnified view below.
(5) Pull the sheet guide assy ⑧ in the direction of arrow ⓐ and also push in the direction of arrow ⓑ to unlock the notch, and bring the sheet guide assy ⑧ in the direction of arrow ⓒ to remove the sheet guide assy ⑧.



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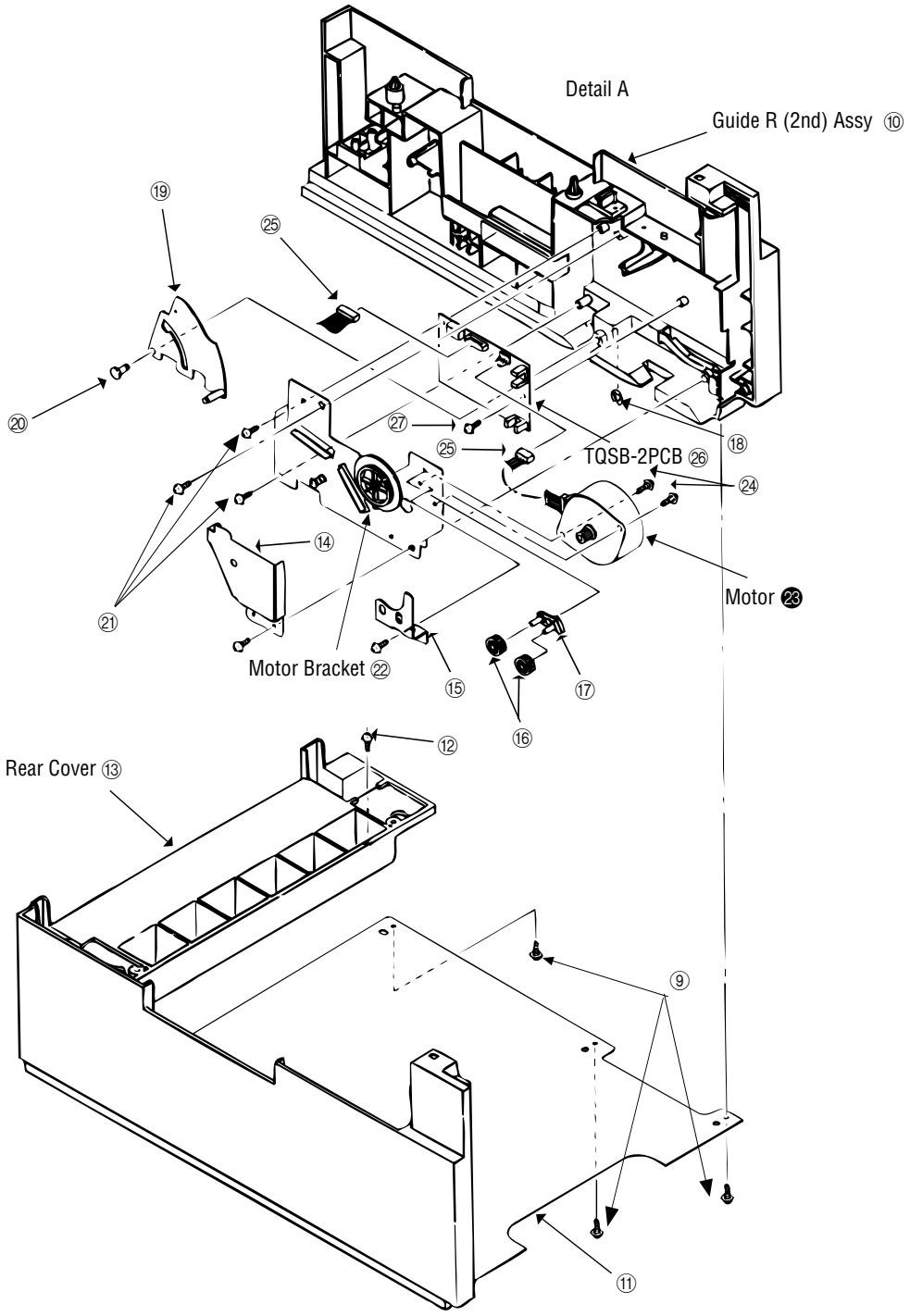
(6) Remove three screws ⑨ which are holding the guide R (2nd) assy ⑩ to the bottom plate ⑪. Remove the screw ⑫ which is keeping the rear cover ⑬ and guide R (2nd) assy ⑩. Remove the guide R (2nd) assy ⑩.
(7) Remove the protect (M) ⑭, guide bracket ⑮, planet gears ⑯ and planet gear bracket ⑰.
(8) Remove the E-ring ⑱ which is keeping the sheet link ⑲ on the guide R (2nd) assy ⑩, and pull out the hinge stand ⑳.
(9) Remove three remaining screws ㉑ which are keeping the motor on the motor bracket ㉒, and remove the connector off the Stepping Motor ㉓.
(10) Remove two screws ㉔ on the Stepping Motor ㉓.



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3.3.2 TQSB2-PCB

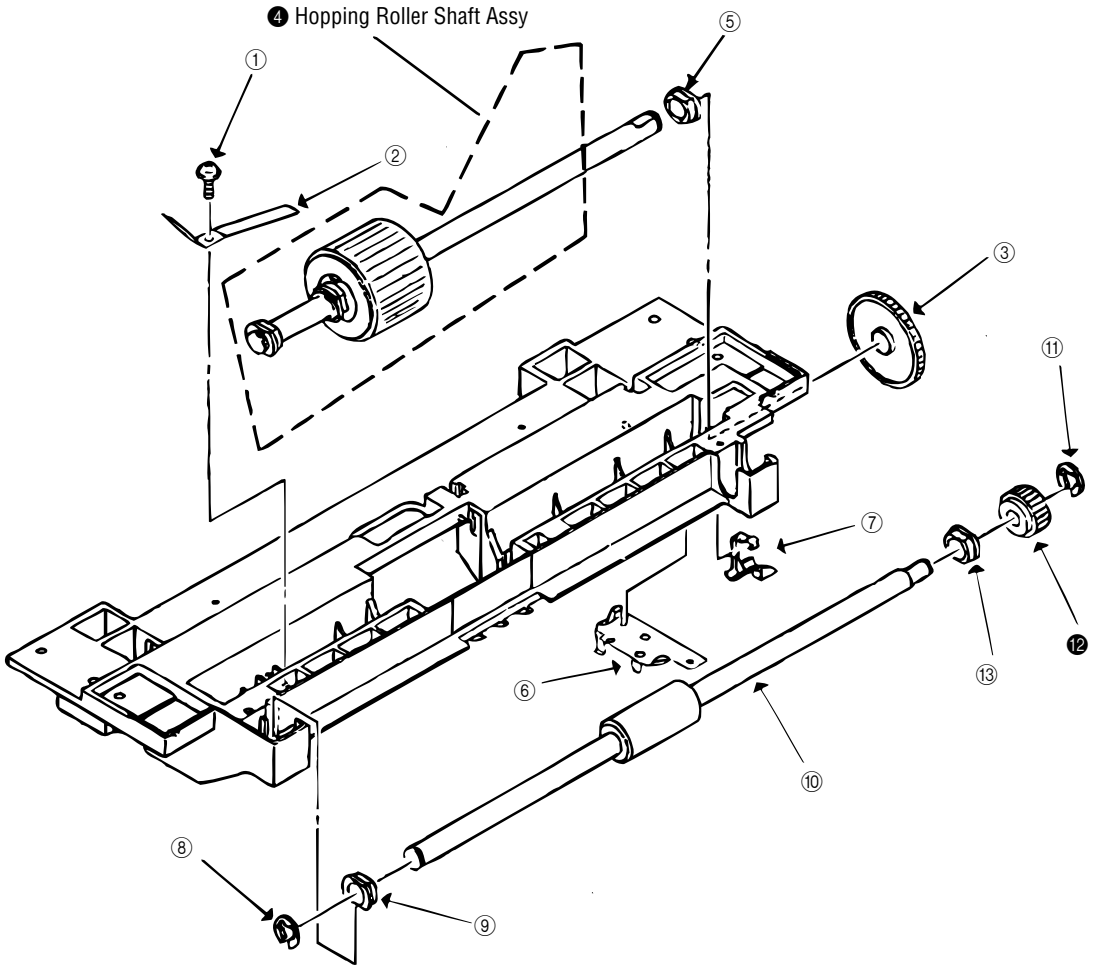
(1) Remove the pulse motor (see 3.3.1).
(2) Remove the connector ㉕ from the TQSB-2PCB ㉖.
(3) Remove the screw ㉗ and remove the TQSB-2PCB ㉖.

Note : Refer to Detall A in the previous page.

3.3.3 Hopping Roller Shaft Assy and One-way Clutch Gear

(1) Follow up to step (3) of 3.3.1 and remove the hopping frame assy.
(2) Remove the screw ① and remove the earth plate ②. Remove the sensor lever ⑦ and remove the ground plate ⑥. Remove the gear ③ and remove the metal bush ⑤ and Hopping Roller shaft Assy ❹.
(3) Remove the E-ring ⑪ and remove the one-way clutch gear ⓬ on the right side of the feed roller ⑩.

Note : The metal bush ⑬ also comes off. Be careful not to lose it.



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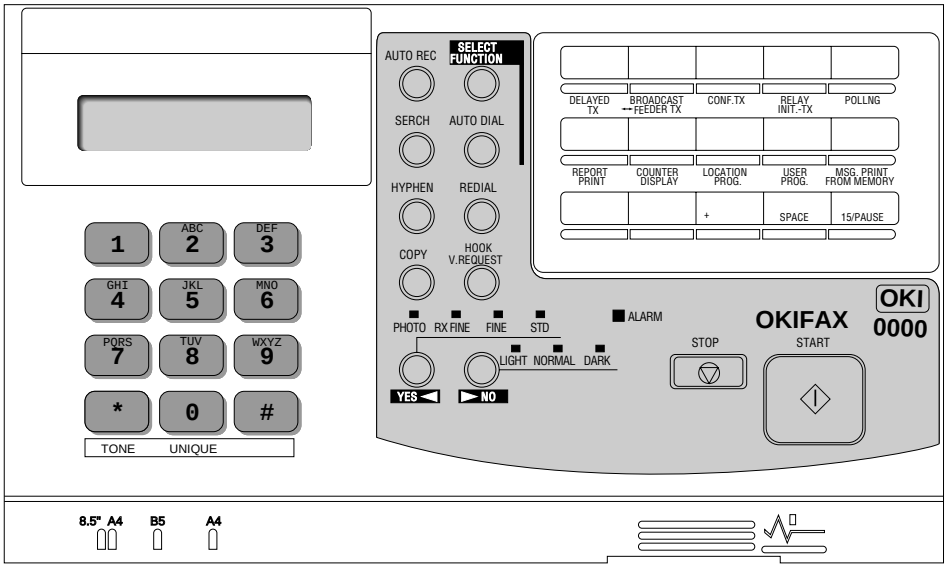
4. TROUBLESHOOTING

4.1 Precautions Prior to the Troubleshooting

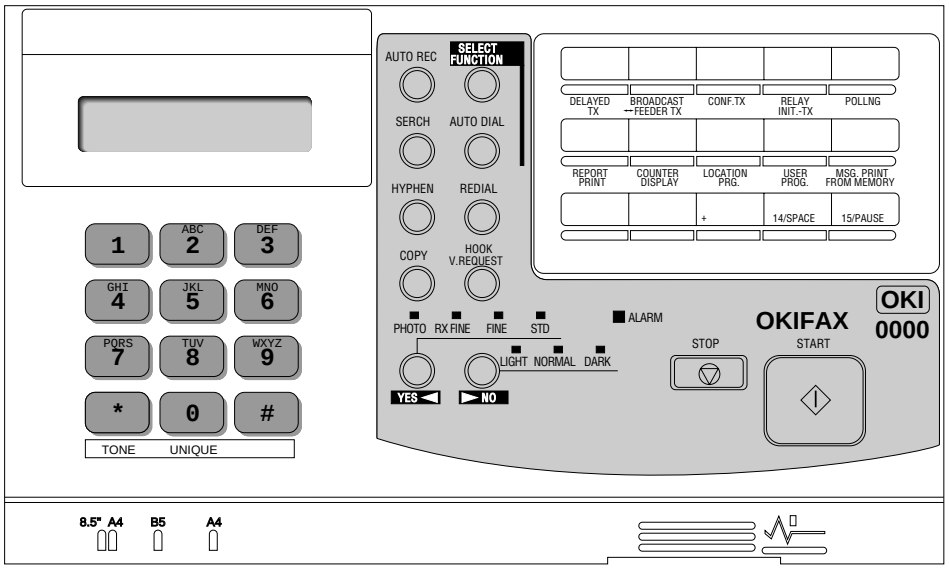
(1) Go through the basic checking items provided in the facsimile Handbook.
(2) Obtain detailed information concerning the problem from the user.
(3) Go through checking in the conditions similar to that in which the problem occurred.

4.2 Preparations for the Troubleshooting

(1) Display on the Operator panel
The status of the problem is displayed on the LCD (Liquid Crystal Display) on the Operator panel. Go through the appropriate troubleshooting procedures according to the messages displayed on the LCD.



Control Panel of OKIFAX 5200/5300



Control Panel of OKIFAX 5500/5600

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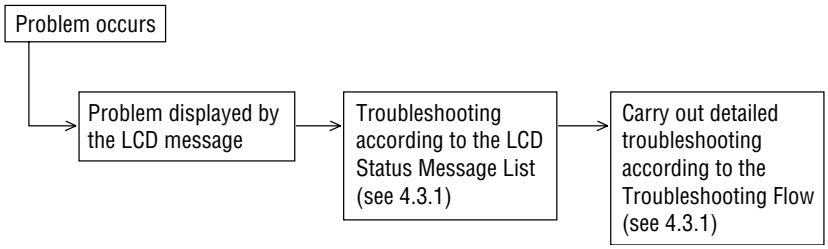
4.3 Troubleshooting Method

When a problem occurs, go through the troubleshooting according to the following procedure.


Problem occurs
Problem displayed by the LCD message
Troubleshooting according to the LCD Status Message List (see 4.3.1)
Carry out detailed troubleshooting according to the Troubleshooting Flow (see 4.3.1)

4.3.1 LCD Status Message List

The listing of the statuses and problems displayed in the form of messages on the LCD is provided in Table 4-1.

Classification	LCD Status Message	Description	Recovery method
Jam error (feeding) *1	[redacted] PAPER MIS-FEED[FAX] REPLACE PAPER	Notifies of occurrence of jam while the paper is being fed from Second Paper Feeder.	• Check the paper in the Second Paper Feeder. Carry out the recovery printing by opening and closing the cover, and turn the error display off. • When the problem occurs frequently, go through the Troubleshooting.
Jam error (ejection)	[redacted] PAPER JAM [FAX] REPLACE PAPER	Notifies of occurrence of jam while the paper is being ejected from the Second Paper Feeder.	• Check the paper in the Second Paper Feeder. Carry out the recovery printing by opening and closing the cover, and turn the error display off.
Paper size error	[redacted] PAPER JAM [FAX] REPLACE PAPER	Notifies of incorrect size paper feeding from Second Paper Feeder.	• Check the paper in the Second Paper Feeder. Also check to see if there was a feeding of multiple sheets. Carry out the recovery printing by opening and closing the cover, and turn the error display off.
Tray paper out *2	[redacted] NO PAPER [FAX] REPLACE PAPER	Notifies of no paper state when both cassettes (1st and 2nd) has no recording paper.	• Load the paper in Second Paper Feeder.

*1: Indicates the same message on the display, when 1st or 2nd cassette becomes jam error (feeding).
*2: However, if 1st cassette has recording paper, LCD indicates the standby mode on the display and alarm message does not indicate.

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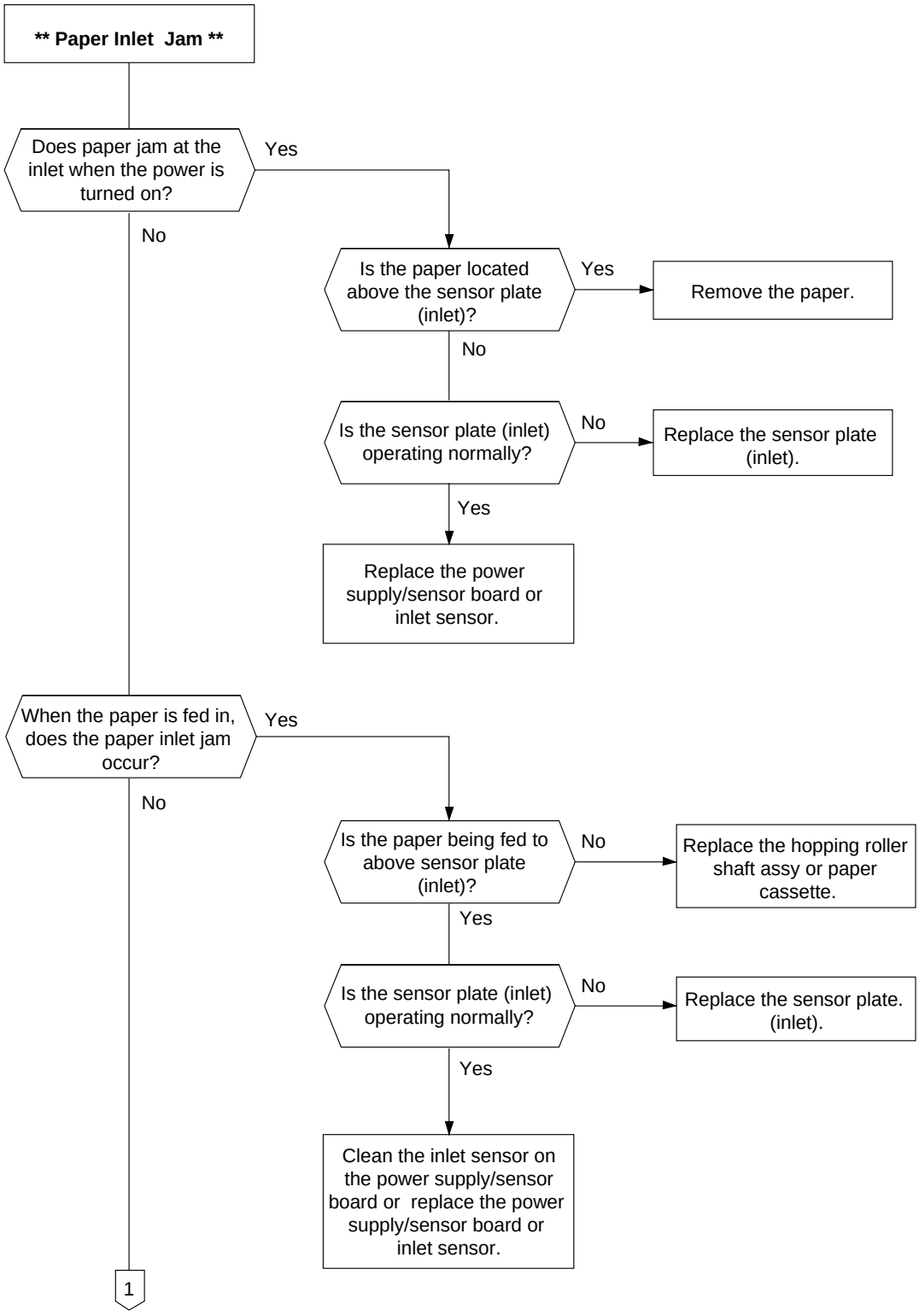
• (JAM error)


** Paper Inlet Jam **
Does paper jam at the inlet when the power is turned on?
Yes
No
Is the paper located above the sensor plate (inlet)?
Yes
Remove the paper.
No
Is the sensor plate (inlet) operating normally?
No
Replace the sensor plate (inlet).
Yes
Replace the power supply/sensor board or inlet sensor.
When the paper is fed in, does the paper inlet jam occur?
Yes
No
Is the paper being fed to above sensor plate (inlet)?
No
Replace the hopping roller shaft assy or paper cassette.
Yes
Is the sensor plate (inlet) operating normally?
No
Replace the sensor plate. (inlet).
Yes
Clean the inlet sensor on the power supply/sensor board or replace the power supply/sensor board or inlet sensor.
1

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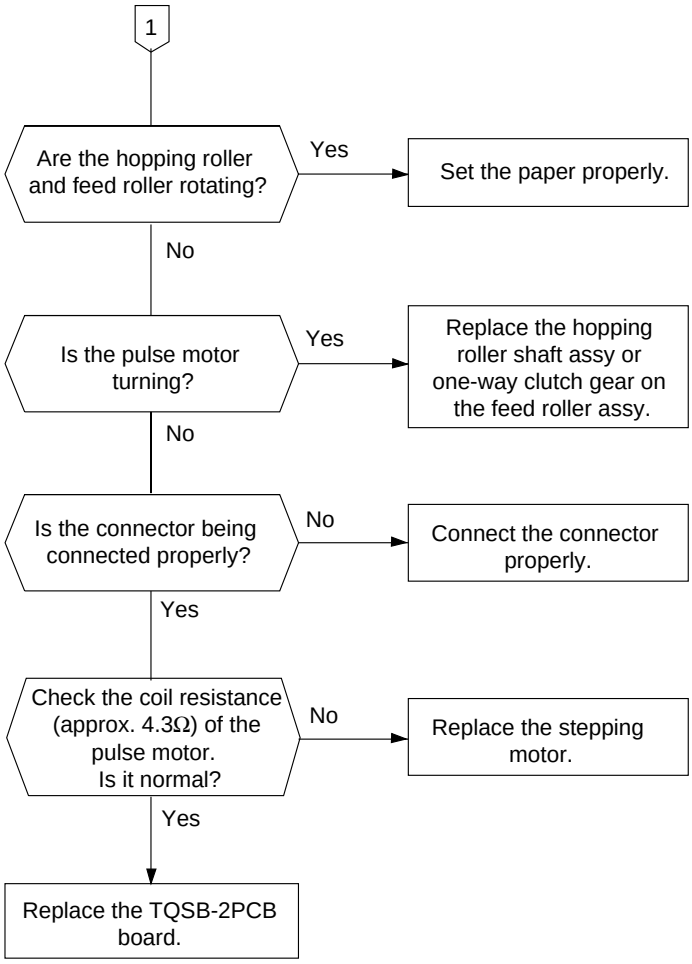
1
Are the hopping roller and feed roller rotating?
Yes
Set the paper properly.
No
Is the pulse motor turning?
Yes
Replace the hopping roller shaft assy or one-way clutch gear on the feed roller assy.
No
Is the connector being connected properly?
No
Connect the connector properly.
Yes
Check the coil resistance (approx. 4.3Ω) of the pulse motor. Is it normal?
No
Replace the stepping motor.
Yes
Replace the TQSB-2PCB board.

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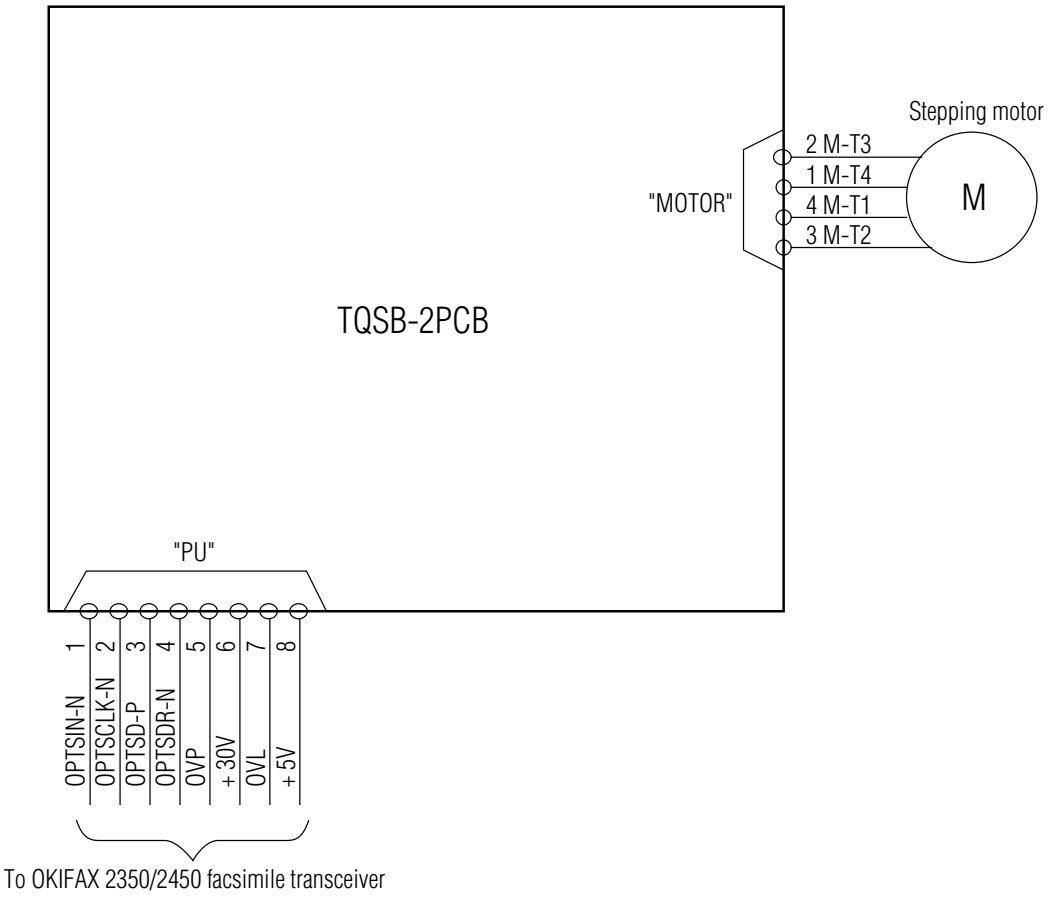
5. CONNECTION DIAGRAM

5.1 Interconnection Diagram



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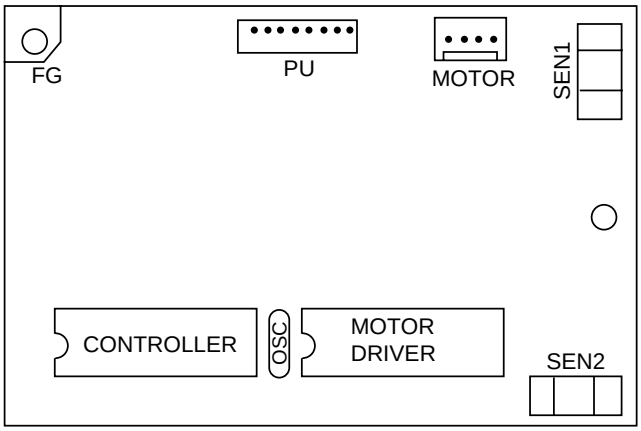
5.2 PCB Layout

TQSB-2PCB



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6. PARTS LIST

SECTION1 CABINET & CASSETTE ASSEMBLY

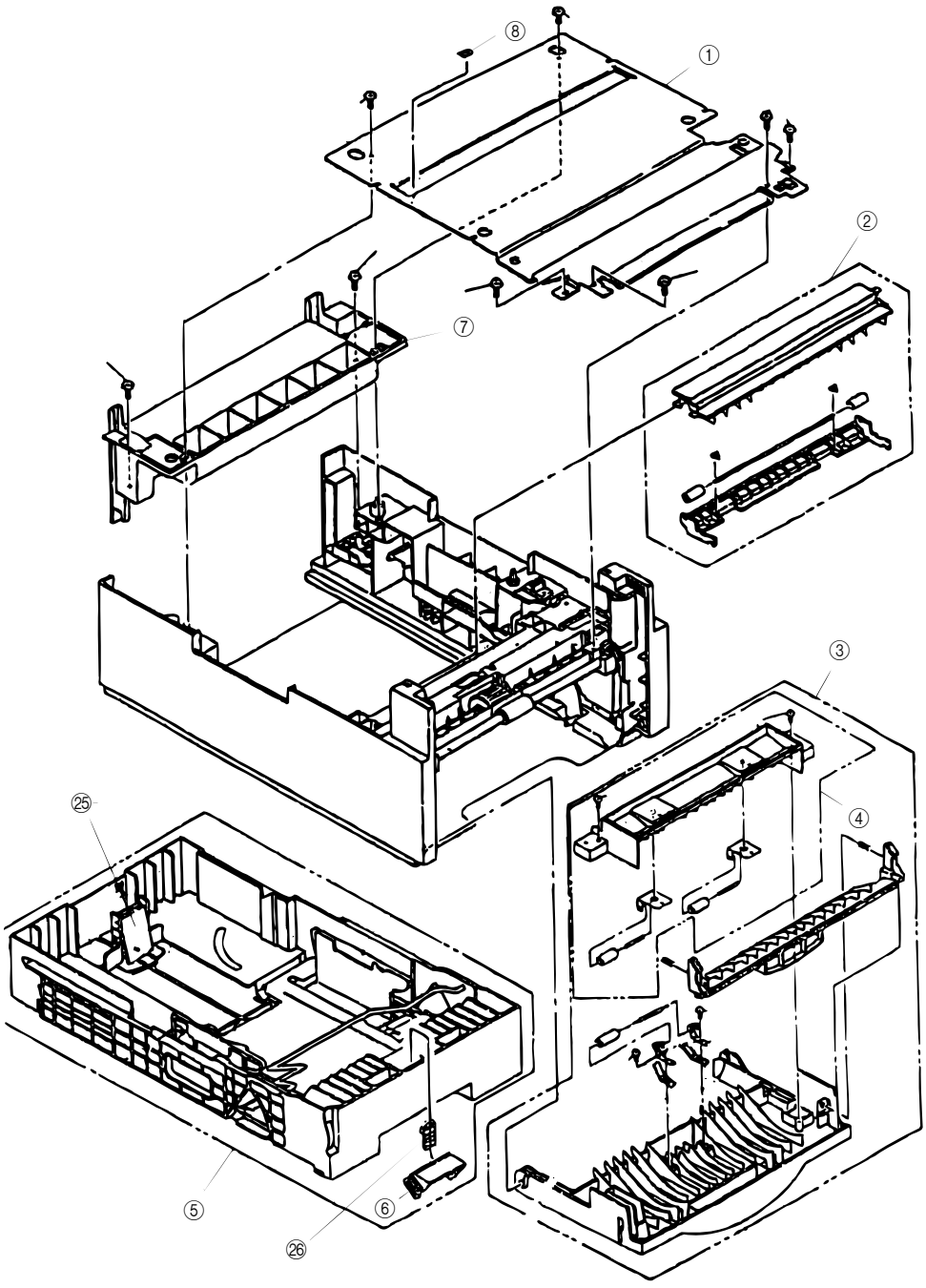

Figure 6-1

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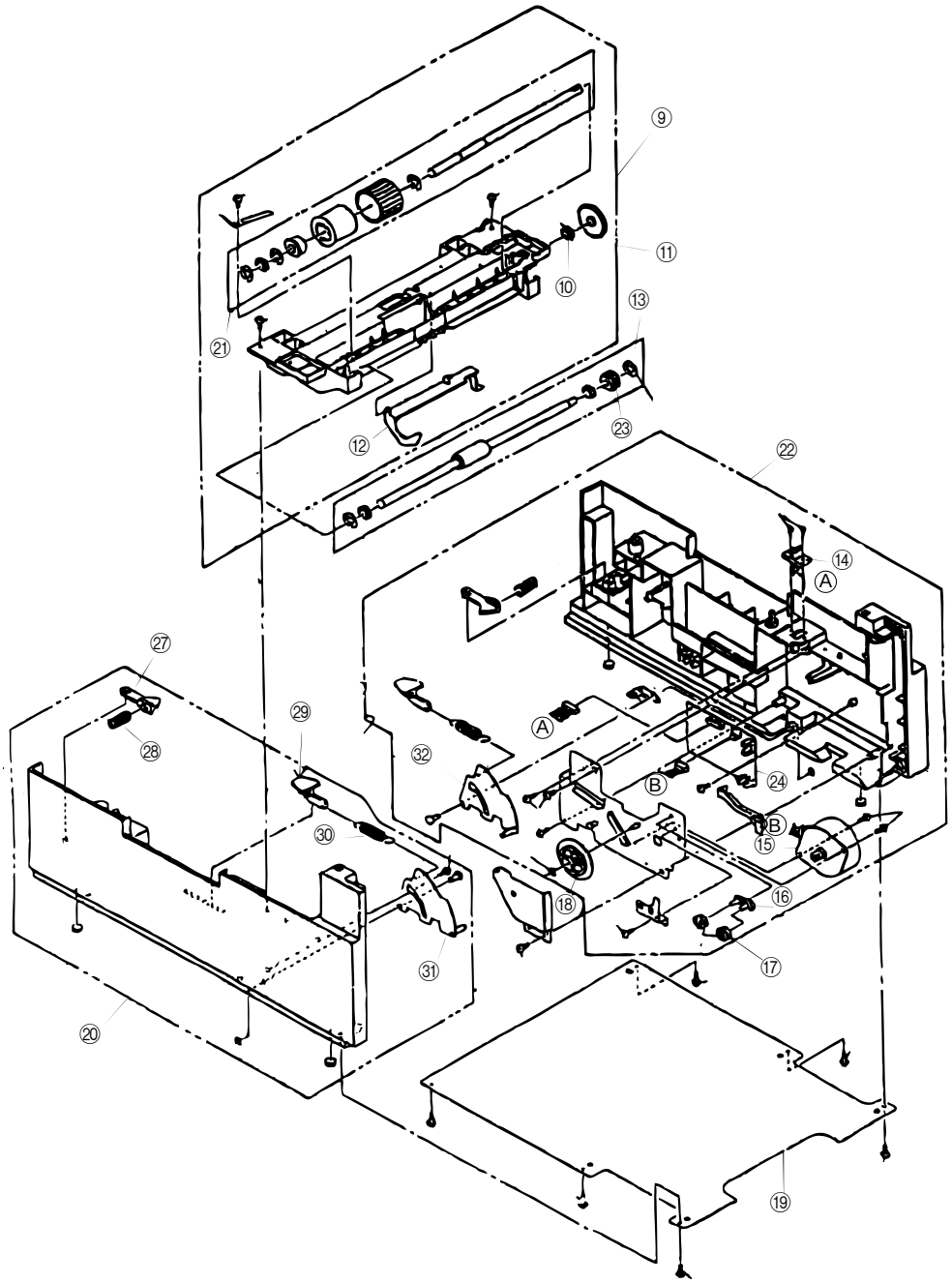

Figure 6-2

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Table 6-1 Paper Feeder

No.	OKI Oarts Number	Description	Q'ty/U	Remarks
1	1PP4122-1401P001	Plate, Upper	1	
2	3PA4122-1370G001	Sheet Guide Assembly	1	
3	1PA4122-1369G001	Front Cover Assembly	1	
4	3PA4122-1371G001	Inner Guide Assembly	1	
5	1PA4122-1362G004	Cassette Assembly (2nd Tray)	1	
6	4PP4120-1009G001	Separation (F) Frame Assembly	1	
7	1PP4122-1323P001	Cover, Rear	1	
8	4PB4122-1441P001	Stick Finger	1	
9	1PA4122-1366G001	Hopping Frame Assembly	1	
10	4PP3522-3568P001	Bushing, Metal (ADF)	1	
11	4PP4122-1207P001	Gear (Z70)	1	
12	3PP4122-1331P001	Lever, Sensor (P)	1	
13	3PA4122-1393G001	Feed Roller Assembly	1	
14	3YS4111-3528P001	Cable & Connector	1	
15	3PB4122-1399P001	Stepping Motor	1	
16	4PP4122-1384G001	Bracket	1	
17	4PP4122-1383P001	Gear (Z24)	2	
18	4PP4122-1226P001	Gear (Z87/Z60)	1	
19	2PP4122-1389P001	Plate, Bottom	1	
20	1PA4122-1365G001	Second Cassette Guide (L) Assembly	1	
21	3PA4122-1367G001	Hopping Roller Assembly	1	
22	1YX4122-1364G002	Second Cassette Guide (R) Assembly	1	
23	4PB4122-1382P001	One-way Clutch Gear	1	
24	4YA4046-1651G002	TQSB-2 PCB	1	
25	3PA4122-1372G001	Tail Guide Assembly	1	
26	4PP4122-1238P002	Separation Spring	1	
27	4PP4122-1184P001	Cassette Lock Lever	1	
28	4PP4122-1347P001	Locks Spring	1	
29	4PP4122-1217P001	Pull Block	1	
30	4PP4122-1398P002	Sheet Spring	1	
31	4PP4122-1339G001	Sheet Link (L)	1	
32	4PP4122-1338G001	Sheet Link (R)	1	

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APPENDIX G RMCS SYSTEM MANUAL(FOR MODEL 20)

Introduction

RMCS stands for the Remote Management Center System. RMCS refers to setting registration data and conducting the following types of maintenance operations from a remote location.
(Refer to Figure 1)

The purpose of this system is to speed up customer service and reduce maintenance costs.

RMCS model for FX050 series is only Model 20.

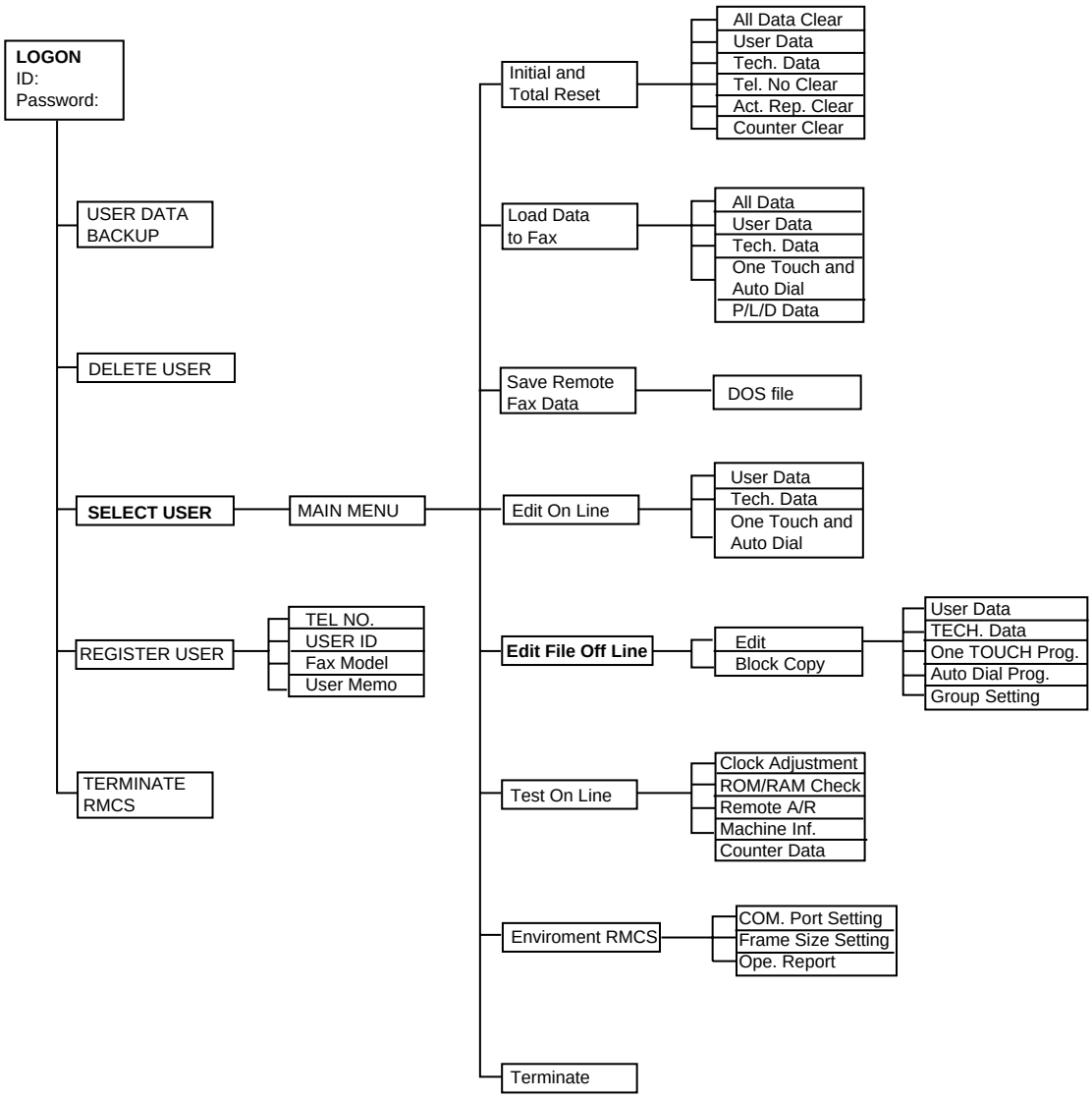

Figure 1 Remote Manegement Center System (RMCS)

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1. Notes to Users

1.1 Identifying the Packaged Contents

Before using this system, the packaged contents with the package list. Contact your dealer if any component from the package.

1.2 Required Devices

The following devices and software are required to operate this system.

Personal computer	IBM PC/AT or compatible model
Internal memory	300KB or more
Extended memory	1MB or more
Fixed disk drive	20MB or more
Display	CGA/EGA/VGA type
FX-050 series facsimile	
PC-I/F card	P050 (Ver.PA2 or later)
RS-232C cable	25-pin female connector
Telephone line	Public telephone line or two-way local channel
Operating system	PC-DOS Ver.3.1 or later

This system requires ANSI.SYS for screen control.
Confirm the following line in the CONIG.SYS file, if not found please add to write the command.

DEVICE=C:¥DOS¥ANSI.SYS

This system uses EMS memory. In case of memory manager consisted of those EMM386.EXE or similar types is used by configuration without EMS function, you should remark it does not work.

EXP.: DEVICE=C:¥DOS¥EMM386.EXE NOEMS

Cannot use in settings of the COM port which connect to PC-I/F excluding default.

COMx	SERIAL PORT START ADDRESS	SERIAL PORT END ADDRESS	IRQ
COM1	3F8	3FF	IRQ4
COM2	2F8	2FF	IRQ3
COM3	3E8	3EF	IRQ4
COM4	2E8	2EF	IRQ3

1.3 Connectable Peripheral Equipment

Printer	
Mouse	Microsoft mouse or equivalent
Telephone	

To use a mouse, a mouse driver program ia required. This program is automatically incorporated by the installation program.

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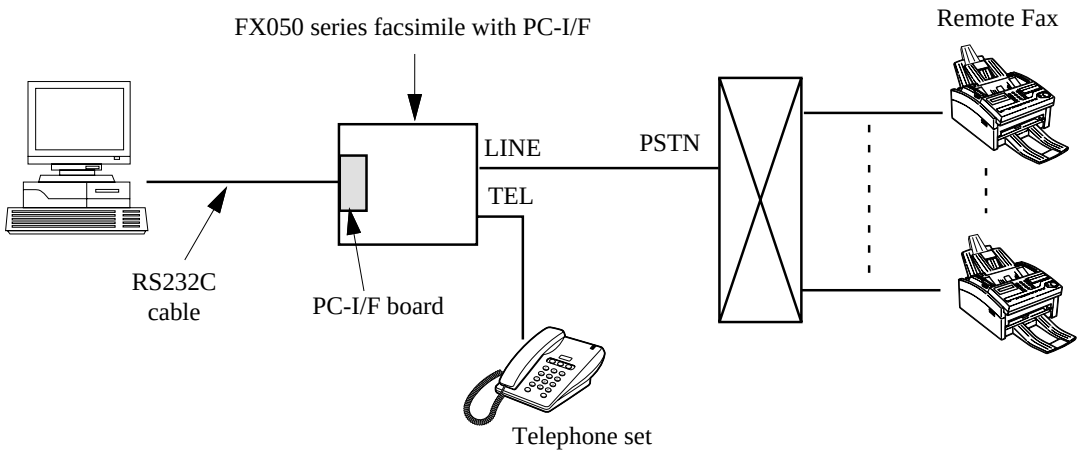
2. Setup

2.1 Mounting

This sysrem (RMCS Model 20) is used FX050 series Facsimile with PC-I/F.

Conceptual connection diagram of RMCS Model 20 with other devices

Conceptual connection diagram of RMCS with other devices



No problem is caused for the basic operation of this system even if no telephone set connected.

2.1.1 Mounting Procedures

1) Before operation, disconnect the power plug of the IBM PC/AT from the system plug socket.
2) Disconect the power plug of FX050 series Facsimile, too and set PC-I/F board to the Facsimile.
3) Connect RS232C cable between COM. Port of the IBM PC/AT and PC-I/F board of the Facsimile.
4) Connect the power pulg of the IBM PC/AT and the Facsimile and turn their power switch on.

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2.2 Installation

When the PC/AT is activated by using the hard disk, insert an RMCS system disk into drive A. When C>_ is displayed, enter commands as shown below to activate the installation program.

C> A:[Enter]
A> INST[Enter]

Remote Management Center System

<< INSTALL MENU >>

1: RMCS SETTING
2: FAX SETTING
3: FAX DELETE
4: PASSWORD UPDATE
5: DIP SW UPDATE (For Model 10)
6: RMCS DELETE
7: END

Please select the desired item.

Select processing with the numeric keypad.
[1] Register the RMCS basic system.
[2] Register the facsimile model number.
[3] Delete the facsimile model number.
[4] Update the password.
[5] Update the dip switches.
[6] Delete the RMCS basic system.
[7] End of the Menu.

Each processing from [1] to [6] is described later.

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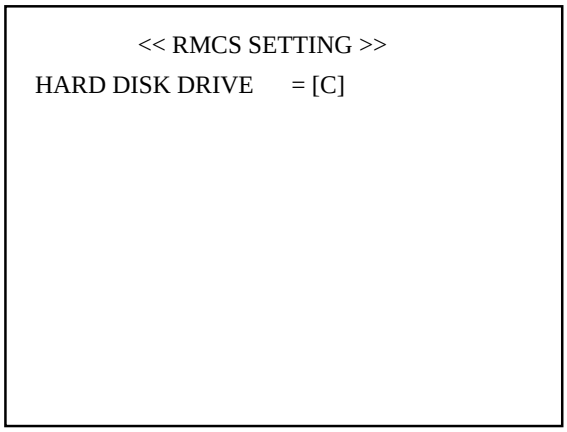
2.2.1 Registering the RMCS Basic System

The flow of new registration is different from that of updating. First, the flow of new registration is described below.

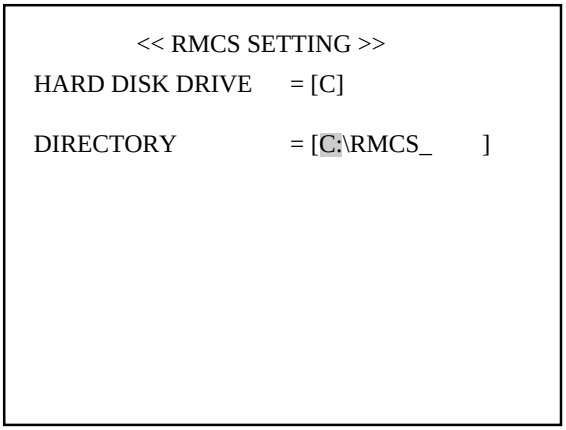
Remote Management Center System



Press the Esc key to cancel.

1) Enter the drive No. used to register the system.

Remote Management Center System



Press the Esc key to cancel.

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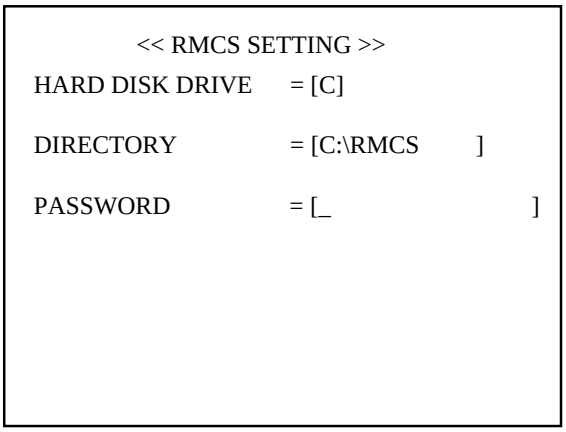
2) Enter the directory name with up to eight alphanumeric characters.

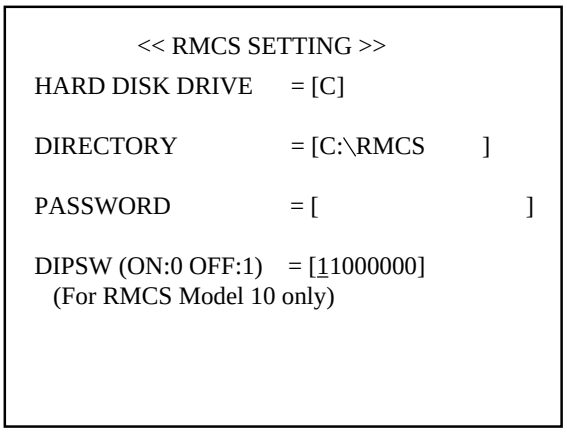
Remote Management Center System



Press the Esc key to cancel.

3) Register a password of up to 15 alphanumeric characters excluding [\],[“]. If the system oprator is not defined, password registration not required.

Remote Management Center System



Press the Esc key to cancel.

4) When you use RMCS Model 10, set the dip switches on the RMCS card. Normally, you need only press [Enter]. When an other extention slot and conflicting address space are being used, change the address space with the dip switches, then set the contents by using 1 and 0.
When you use RMCS Model 20, you need only press [Enter].

OFF corresponds to 1 and ON to 0. Therefore set the dip switches to 11000000 in the following case.

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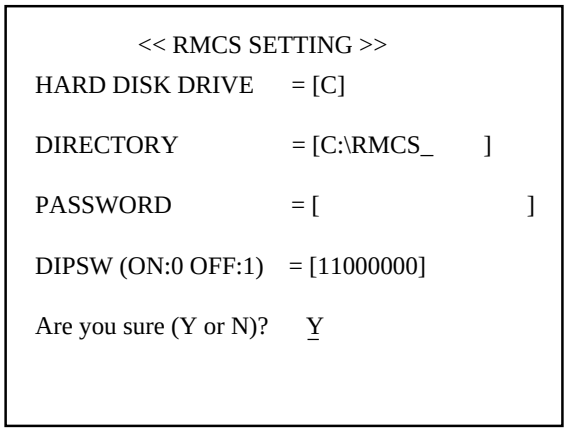
Remote Management Center System



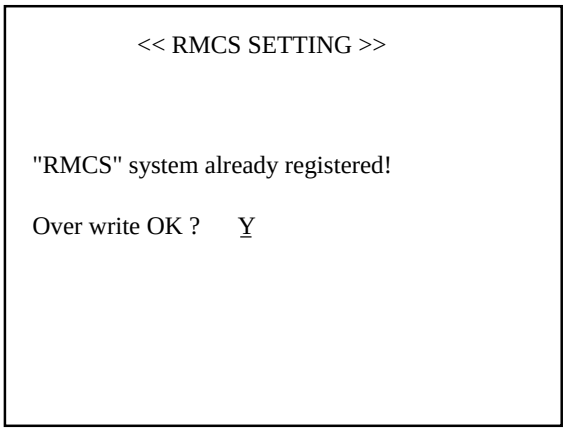
Press the Esc key to cancel.

5) When the setting is correct, enter [Y]. The system is now registered. If not correct, enter [N]. Then repeat from step 1) again.

When registering the system, also register ANSI.SYS required for screen control and MOUSE.SYS for using the mouse.

If RMCS is already set in the IBM PC/AT, RMCS SETTING MENU is displayed as below.

Remote Management Center System



Press the Esc key to cancel.

6) When updating, enter [Y]. Then updating status. When not updating, enter [N].

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2.2.2 Registering the Facsimile Model No.

1) Seach the directory in which the system is registered. when the systwm is found, register the model number.

Remote Management Center System

<< FAX SETTING >>

FAX Disk set

Push any key

Press the Esc key to cancel.

2) Insert a disk corresponding to the the model into drive A, then press any key. The model number is displayed and the confirmation screen is displayed.

Remote Management Center System

<< FAX SETTING >>

FAX Disk set

Push any key

OOOOOOOOOO

Are you sure (Y or N)? Y

Press the Esc key to cancel.

3) When the model number to be registered is correct, enter [Y]. The program corresponding to the model number is now registered. If not correct, enter [N]. Then repeat from step 1) again.

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2.2.3 Deleting the Facsimile Model No.

1) Search the directory in which the system is registered. When the system is found, a list of registered models is displayed.

Remote Management Center System

```
<< FAX DELETE >>                1/1

[0]: OOOOOOOOOO
[1]:
[2]:
[3]:
[4]:


[Page Up]: Previous page
[Page Down]: Next page
```

Please select the FAX model.
Press the Esc key to cancel.

2) Select the model number to be deleted. This number is then displayed in inverse video. The confirmation screen is also displayed.

Remote Management Center System

```
<< FAX DELETE >>                1/1

[0]: OOOOOOOOOO
[1]:
[2]:
[3]:
[4]:


[Page Up]: Previous page
[Page Down]: Next page
```

Are you sure (Y or N)? Y
Press the Esc key to cancel.

3) When the model number deleted is correct, enter [Y]. The program corresponding to the model number is now deleted. If not correct, enter [N]. Then repeat from step 1) again.

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2.2.4 Updating the Password

1) Search the directory in which the system is registered. When the system is found, the old password is displayed on the screen requesting entry of a new password is displayed.

Remote Management Center System

```
<< PASSWORD UPDATE >>

OLD PASSWORD      = [1234567890          ]

NEW PASSWORD      = [_                   ]
```

Press the Esc key to cancel.

2) Register a new password of up to 15 alphanumeric characters excluding [\], [“].
Press [Enter] to display the confirmation screen.

Remote Management Center System

```
<< PASSWORD UPDATE >>

OLD PASSWORD      = [1234567890          ]

NEW PASSWORD      = [ABCDEFGH            ]

Are you sure (Y or N)?  Y
```

Press the Esc key to cancel.

3) When the setting is correct, enter [Y]. The password is now updated. If not correct, enter [N]. Then repeat from step 1) again. If the system operator does not define the PASSWORD, PASSWORD is not checked when RMCS starting.

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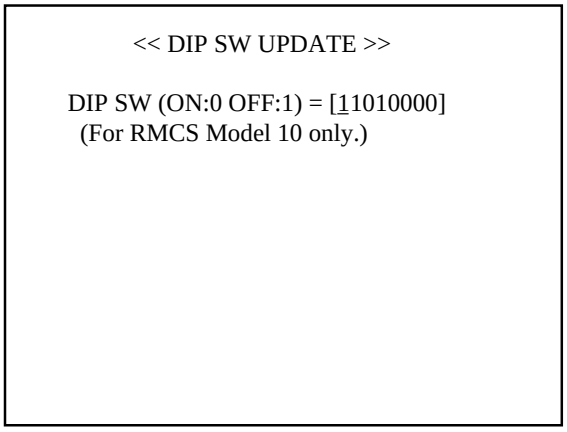
2.2.5 UPdating the Dip Switches

This setting is available for only RMCS Model 10.

1) Search the directory in which the system is registered. When the system is foud, the dip switch setting is displayed.

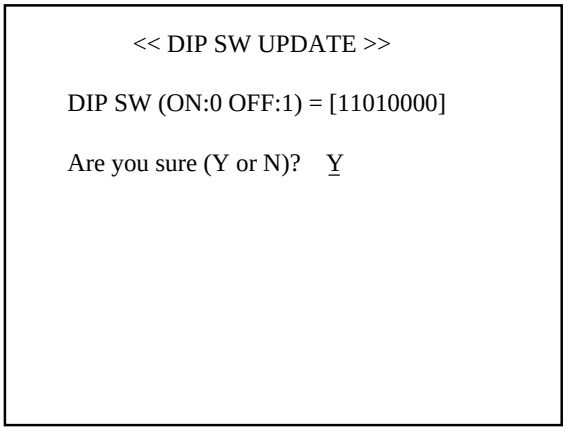
Remote Management Center System



Press the Esc key to cancel.

For the detail of setting, refer to 2.2.1.
After setting is completed, press [Enter]. Then the screen for verification is displayed.

Remote Management Center System



Press the Esc key to cancel.

3) When the setting is corrected, enter [Y]. The dip switches are now updated. If not correct, enter [N]. Then repeat from step 1) again.

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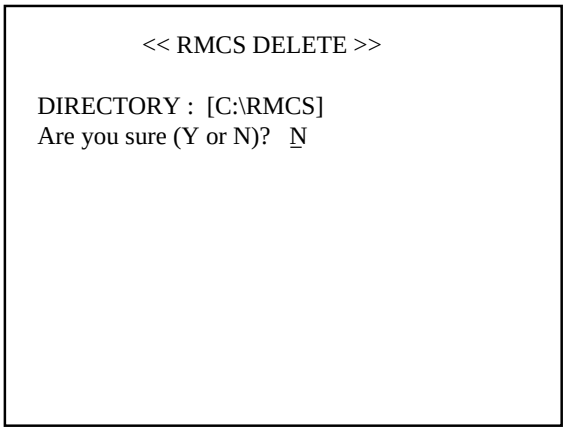
2.2.6 Deleting rhe RMCS Basic System

1) When to delete, enter [Y], then whole RMCS system is deleted. When not to delete, enter [N]. Then the installation menu appears.

Remote Management Center System



Press the Esc key to cancel.

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3. RMCS Basic Operation

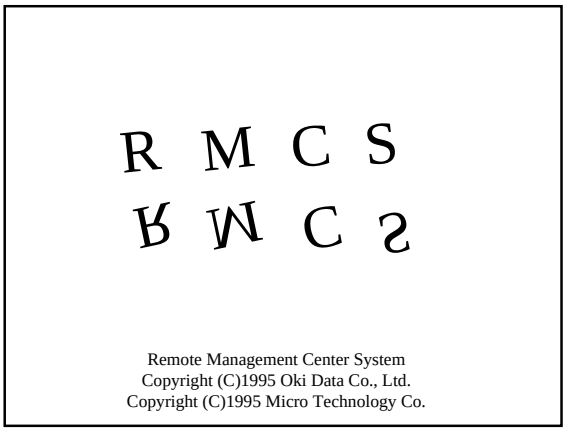
3.1 Activating and Terminating the system

Before Activating the system

If the facsimile terminal is equipped with a selector function to “enable” or “unable” remote maintenance, set to “enable” in advance.

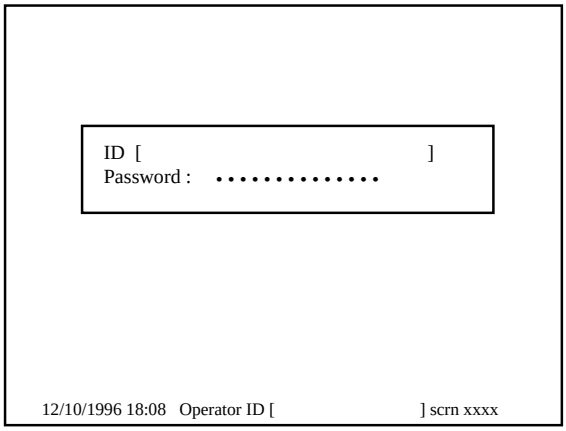
3.1.1 To Activate

Enter the following command in the PC-DOS command input state.
C>RMCS



After completing the necessary preparations, the ID and password entry screen is displayed.

3.1.2 Entering the ID and Password



The ID is recorded in the operation report as part of the system operator history. Enter up to 50 alphanumeric characters except [“], [\] for the ID.

Enter the password registered at installation. When the correct password is entered. TEL Directory menu screen is displayed.

If you enter wrong password three times, ID and password entry screen is closed and return to the PC-DOS command input state.

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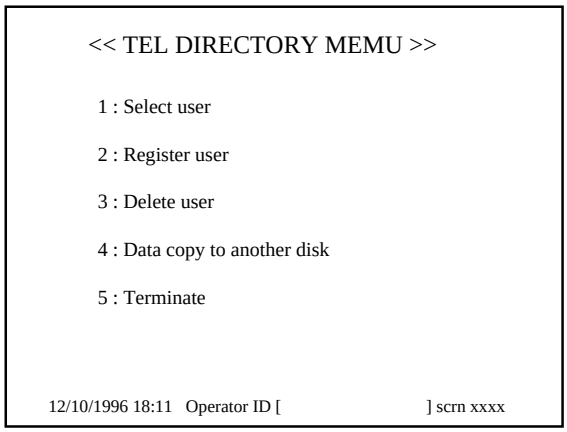
3.2 TEL Directory

You can select such services (items) registration and deletion of information related to users. We describe the detail of each service later.

There are two ways to specify an item: select by using the [↑] and [↓] keys, then press [Enter] or enter the number before the item.

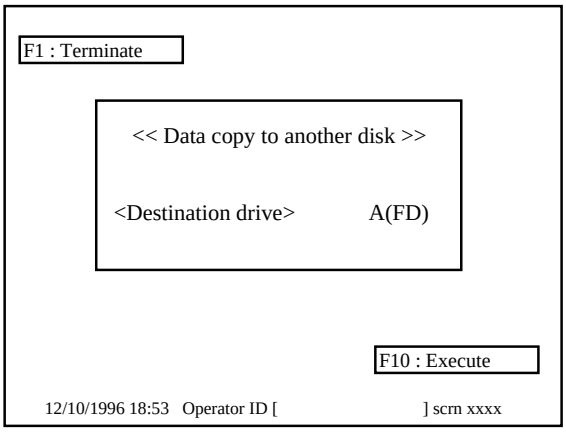


3.2.1 To Terminate

To terminate this system select “Terminate” on TEL directory menu screen or the main menu screen to return to PC-DOS.

Caution: After terminating remote management, restore the original facsimile terminal setting. (See to “Unable” remote diagnosis.)

3.2.2 Selecting Destination Drive



Now, select the destination drive. Press [Space] to cahnge the drive name.
Select “Terminate” to stop processing and return to the TEL directory menu screen.
Select “Execute” to copy user information between the drives and return to the TEL directory menu screen.

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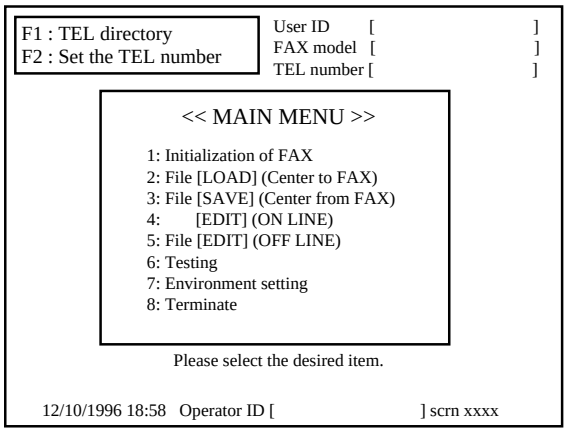
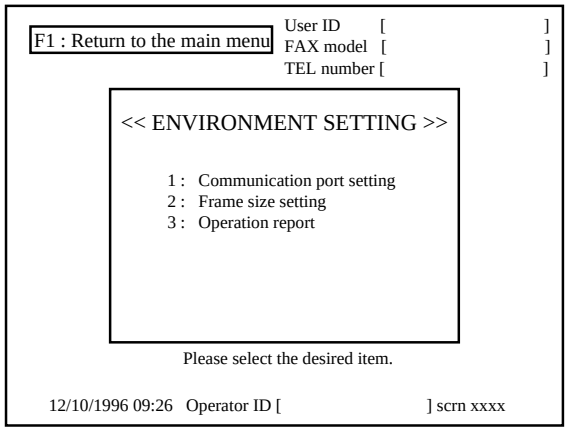
3.3 Main Menu

The main menu screen varies according to FAX models. For futher operation, refer to each FAX model manual.


F1 : TEL directory
F2 : Set the TEL number
User ID [ ]
FAX model [ ]
TEL number [ ]
<< MAIN MENU >>
1: Initialization of FAX
2: File [LOAD] (Center to FAX)
3: File [SAVE] (Center from FAX)
4: [EDIT] (ON LINE)
5: File [EDIT] (OFF LINE)
6: Testing
7: Environment setting
8: Terminate
Please select the desired item.
12/10/1996 18:58 Operator ID [ ] scrn xxxx

There are two ways to specify an item: select by using the [↑] and [↓] keys, then press [Enter] or enter the number befor each item.
Detail on “Environment Setting” is described later.
Submenus can also be specified by using the function keys.
Press [F1] to return to TEL directory menu screen.
Press [F2] to display the TEL number setting screen when you want to change the number registered into the user information file temporarily.

3.4 Environment Setting


F1 : Return to the main menu
User ID [ ]
FAX model [ ]
TEL number [ ]
<< ENVIRONMENT SETTING >>
1 : Communication port setting
2 : Frame size setting
3 : Operation report
Please select the desired item.
12/10/1996 09:26 Operator ID [ ] scrn xxxx

Selecting “ENVIRONMENT SETTING” on the main menu to display this screen.

Communication port setting:
Select communication port to connect the IBM PC/AT and PC-I/F.

Frame size setting:
Select a frame size for each frame to transfer TEL number data and program/language/default data during excution of File [LOAD] (Center to FAX) and [EDIT] (ON LINE).

Operation report:
The operation report displays the transmission status.

Press [F1] to return to the main menu screen.

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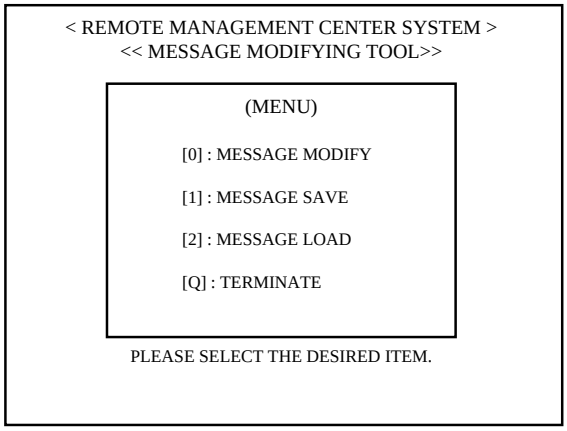
4. Message Modifying Tool

4.1 Activating the Program

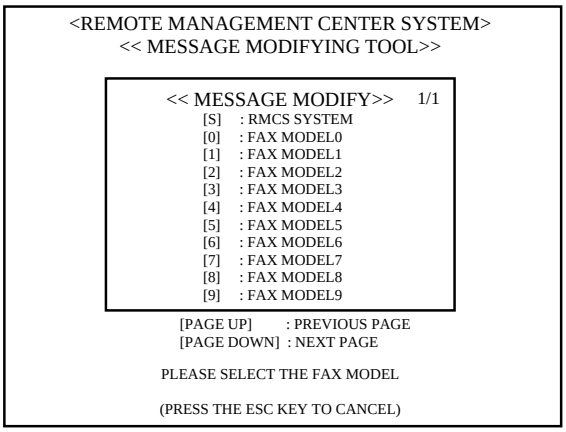
After activating the PC/AT with a hard disk, insert the RMCS system disk into drive A.
When C>_ is displayed, enter the following commands to activate the program.
C>A:[Enter]
A> SCRNED [Enter]
Then the screen for menu selection is displayed.



- Press [0] - [2] to display a screen for FAX model selection of each service.
- Press [Q] to terminate the program and return to PC-DOS.

4.2 Modifying Message

File selection:
Select “MESSAGE” MODIFY” on the menu screen, then the following screen is displayed.



Enter the key No. indicated on the left of the model to modify. Then the screen for file selection is displayed.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the FAX model selection and return to the menu screen.

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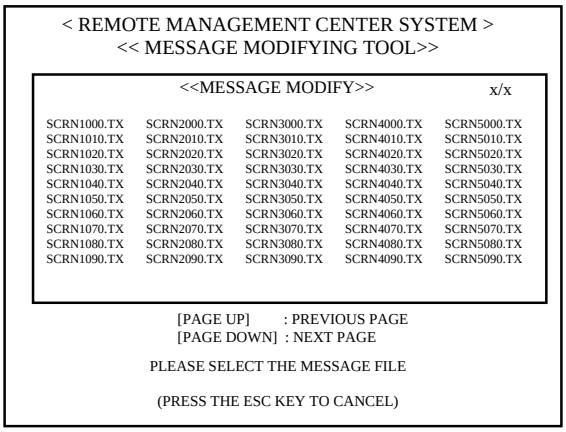
4.2.1 File Selection

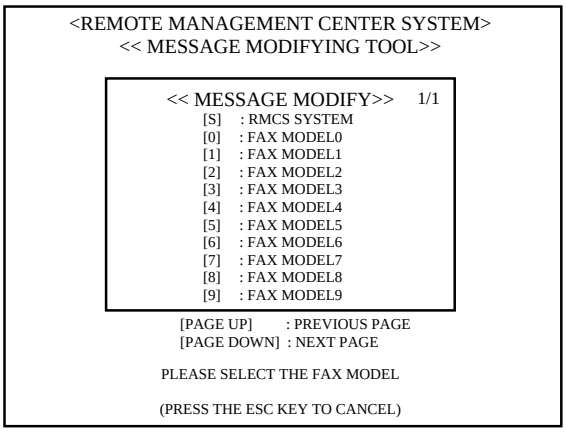


Select the message title to modify.
Select the position with [↑], [↓], [←] and [→] keys, and press the [Enter] key, then the position is selected.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the title selection and return to the FAX model selection screen.

4.3 Saving Message

Model Selection:
Select “MESSAGE SAVE” on the menu screen. then the following screen is displayed.



Enter the key number indicated on the left side of the model with messages to store.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the FAX model selection and return to the menu screen.

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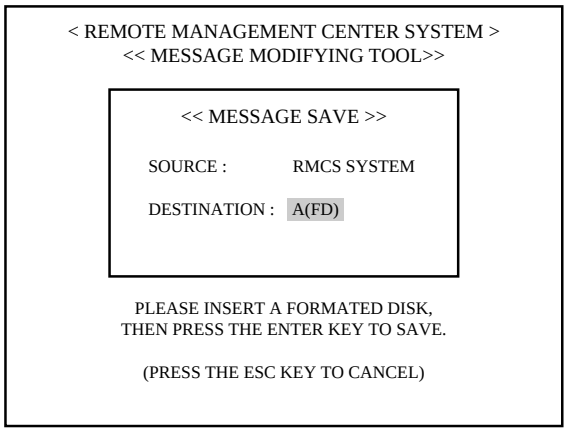
4.3.1 Confirmation

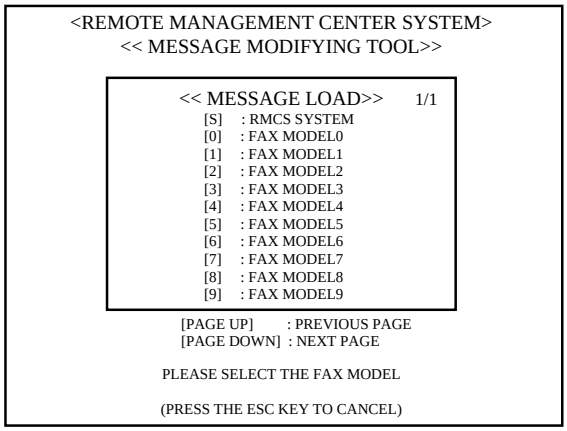


Select a drive with the [Space] key.
Since it is assumed that data is stored on a floppy disk, you can select drive A or drive B.
When setup is ready, insert a formatted floppy into the drive and press the [Enter] key, then saving is initiated.

- Press [Esc] to terminate saving message and return to the main menu screen.

4.4 Loading Message

Model Selection:
Select “MESSAGE LOAD” on the menu screen, the following screen is displayed.



Enter the key number indicated on the left side of the model with a message reset.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the FAX model selection and return to the menu screen.

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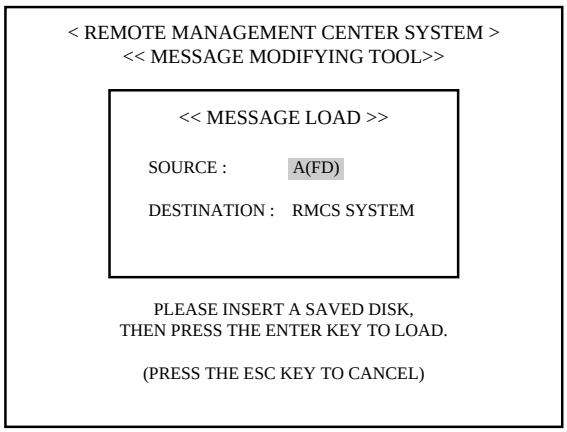
4.4.1 Confirmation



Select a drive with the [Space] key.
It is assumed that a message is loaded on the machine from the floppy disk, you can select drive A or drive B.
When setup is ready, insert a floppy disk which stores the message into the drive and press the [Enter] key.

- Press [Esc] to terminate loading message and return to the main menu screen.

4.5 Other Message File

In addition to the “scrn OOOO. lx” file, the following message files are available.

RMCS SYSTEM

err_mess. tx	Error message text
rms_env. tx	Operator ID text
sc OOOO p. tx	Printing screen text
u_print. tx	Printing text
rms_env2. tx	New user text
online tx. tx	"ON LINE" text
inst. tx	install text

FAX MODEL

sc OOOO p. tx	Printing screen text
online tx. tx	"ON LINE" text
scrnerr. tx	Error message text

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